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July 1878

WEATHER MAP.

29 JUNE, 1878,—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max	Min	Rain
Tenterfield	n	52 9		0
Grafton ..	f	66 35		0
Taveren ..	b	51 20		0
Bourke .	b	63 52		0
Nerrigori..	b	55 33		0
Armidale.	n	50 23		0
Gunnedah	b	67 27		0
Tamworth	..	..	..	..
R. Macquarie	b	52 37		0
Murrumbidgee	b	52 42		0
Cassing ..	..	..	..	..
Mudgeeroo	b	62 23		0
Dubbo ..	n	52 33		0
Mudgee ..	b	55 29		0
Maitland..	b	55 37		0
Newcastle	b	62 45		0
Orange ..	n	42 23		0
Bathurst..	n	53 26		0
Mt Victoria	b	45 29		0
Forbes ..	b	60 29		0
SYDNEY ..	b	57 43		0
Wentw'th.	b	64 35		0
Young ..	b	51 33		0
Wollongong	b	63 42		0
Moss Vale	..	..	..	..
Euston ..	b	62 26		0
Echuca ..	b	63 30		0
Wagga ..	b	57 40		0
Cape Geo.	b	58 45		0
Queanbeyan	n	52 29		0
Deniliquin	b	56 34		0
Albury ..	o	56 39		0
Bodalla ..	n	65 29		0
Cooma ..	n	48 25		0
Eden	c	57 44		0
Gabo Isld.	b	63 47		0

PD No report

16 29·90 F 55.
For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, raining; temperature 55.

GULF OF CARPENTARIA.

W — E
S

SYDNEY OBSERVATORY.

LAT. 33° 51 41" LONG. 19h 4m 15s. MAG. VAR. 9° 25' 2" E.
Time-ball drops at 1h p.m. or 2h 55m 18s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 15 Years..52·085.
Average of previous 19 years, for July .....4·061.
Total Rainfall from 1 Jan to 1 July .....28·605.
EXPLANATION.—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles.	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh "
43..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER
b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS No report

R No report

B No report

G No report

Frost

28 30·31 F 45 BO

FINE—CALM GENERALLY

PM 14 30·04 F 45

N 30·03 F 52

S 30·10 F 47

W 14 30·03 F 43

18 29·88 F 55 A

0 30·15 F 40 D

0 30·05 F 45 AA

Frost

C 28 29·97 F 50

CB 24 29·73 F

No report M

P 28 29·77 F 53

L 23 29·94 F 55

GO 32 29·81 F 54

13 29·80 F 54

28 29·73 F 54 WP

squally

Bar. has fallen about ·30

SMOOTH SEA

QC 992 N49 W43 1878 July — Dec.

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WEATHER MAP.

2 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max	Min	Rain.
Tenterfield	n	61	27	0
Grafton ..	b	75	38	0
Inverell ..	b	56	27	0
Bourke ..	c	69	44	0
Narrabri ..	b	64	34	0
Armidale .	n	53	29	0
Gunnedah	n	71	51	0
Tamworth	..	..	..	..
P. Macqrie	b	65	43	0
Murr'undi	b	56	32	0
Cassilis ..	b	63	28	0
Mus'brook	b	63	32	0
Dubbo ..	b	55	35	0
Mudgee ..	b	61	30	0
Maitland ..	b	59	42	0
Newcastle	b	65	46	0
Orange ..	c	48	25	0
Bathurst ..	b	61	29	0
Mt Victoria	b	52	34	0
Forbes ..	c	52	33	0
SYDNEY ..	c	62	47	0
Wentw'th.	b	74	38	0
Young ..	c	55	33	0
Woll'gong	b	61	42	0
Moss Vale	..	..	..	..
Euston ..	c	72	39	0
Goulburn	b	60	31	0
Wagga ..	b	58	41	0
Cape Geo.	c	64	46	0
Queanb'an	b	55	32	0
Deniliquin	c	61	36	0
Albury ..	r	60	34	0
Bodalla ..	n	74	34	0
Cooma ..	b	61	35	0
Eden	b	64	44	0
Gabo Isld.	c	71	50	0

WEATHER MAP.

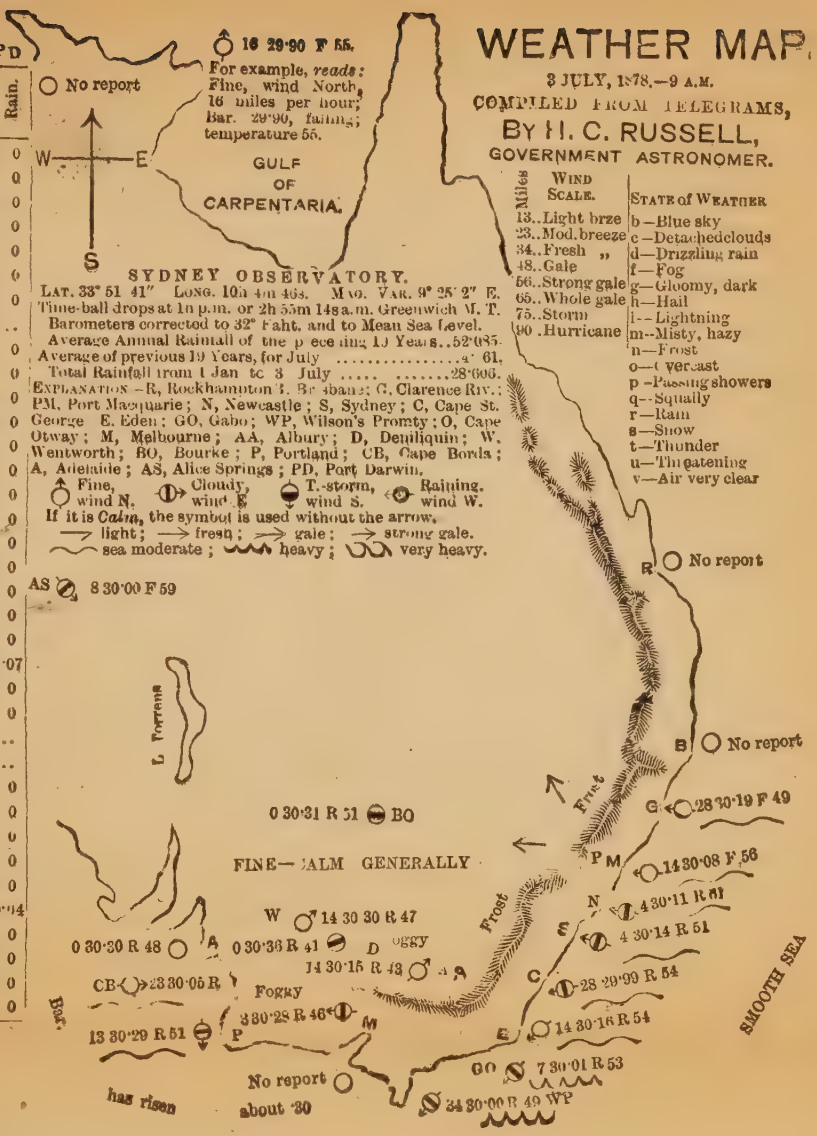
3 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	n	62 29		0
Grafton ..	b	75 33		0
Inverell ..	b	61 30		0
Bourke ..	c	77 48		0
Narrabri..	c	71 40		0
Armidale.	n	53 30		0
Gunnedah	g	76 28		0
Tamworth	..	..	..	..
P. Macquarie	g	70 49		0
Murr'undi	c	55 37		0
Cassilis ..	b	60 34		0
Mus'brook	g	67 36		0
Dubbo ..	b	60 49		0
Mudgee ..	u	71 35		0
Maitland..	c	65 48		0
Newcastle	c	71 47		0
Orange ..	b	51 34		0
Bathurst..	b	65 33		0
Mt Victoria	b	57 42		0
Forbes ..	..	66 38		0
SYDNEY ..	c	66 47		0
Wentw'th.	b	74 43		0·07
Young ..	n	59 32		0
Wollgong	b	65 50		0
Moss Vale	..	..	..	..
Euston ..	..	..	..	..
Goulburn	b	63 38		0
Wagga ..	f	61 40		0
Cape Geo.	c	64 46		0
Queanb'an	b	62 32		0
Deniliquin	f	67 36		0
Albury ..	b	62 34		0·04
Bodalla ..	f	76 33		0
Cooma ..	n	68 24		0
Eden	b	58 48		0
Gabo Isld.	g	67 51		0



WEATHER MAP.

4 JULY, 1875.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.		Wt'r 9h.	Max	Min	Rain.
[illegible]	g	60 34			0
Grafton ..	c	76 43			0
Laverell ..	b	62 30			0
Bourke ..	c	70 50			0
Narrabri ..	c	6[illegible] 50			0
Armidale ..	c	54 53			0
Gunnedah	c	73 36			0
Tamworth	..	..	..	..	..
P. Macqrie	b	72 47			0
Murr'ndi	b	61 35			0
Cassilis ..	b	67 31			0
Mus'brook	b	71 36			0
Dubbo ..	b	62 42			0
Mudgee ..	b	74 35			0
Maitland ..	p	65 43			0
Newcastle	g	70 47			0
Orange ..	c	49 27			0
Bathurst ..	n	56 38			0
Mt Victoria	n	56 30			0
Forces ..	c	61 33			0
SYDNEY ..	c	65 47			0
Wentw'th.	b	68 34			0
Young ..	b	60 28			0
Wollgong	..	..	..	..	..
Moss Vale	..	..	..	..	..
Euston ..	n	70 32			0
Goulburn	g	60 23			0
Wagga ..	f	61 25			0
Cape Geo.	b	63 50			0
Queanb'an	b	60 27			0
Deniliquin	n	61 28			0
Albury ..	f	60 29			0
Bourkia ..	n	77 26			0
Cooma ..	n	61 19			0
Eden	b	60 47			0
Gabo Isld	b	55 47			0·10

WEATHER MAP.

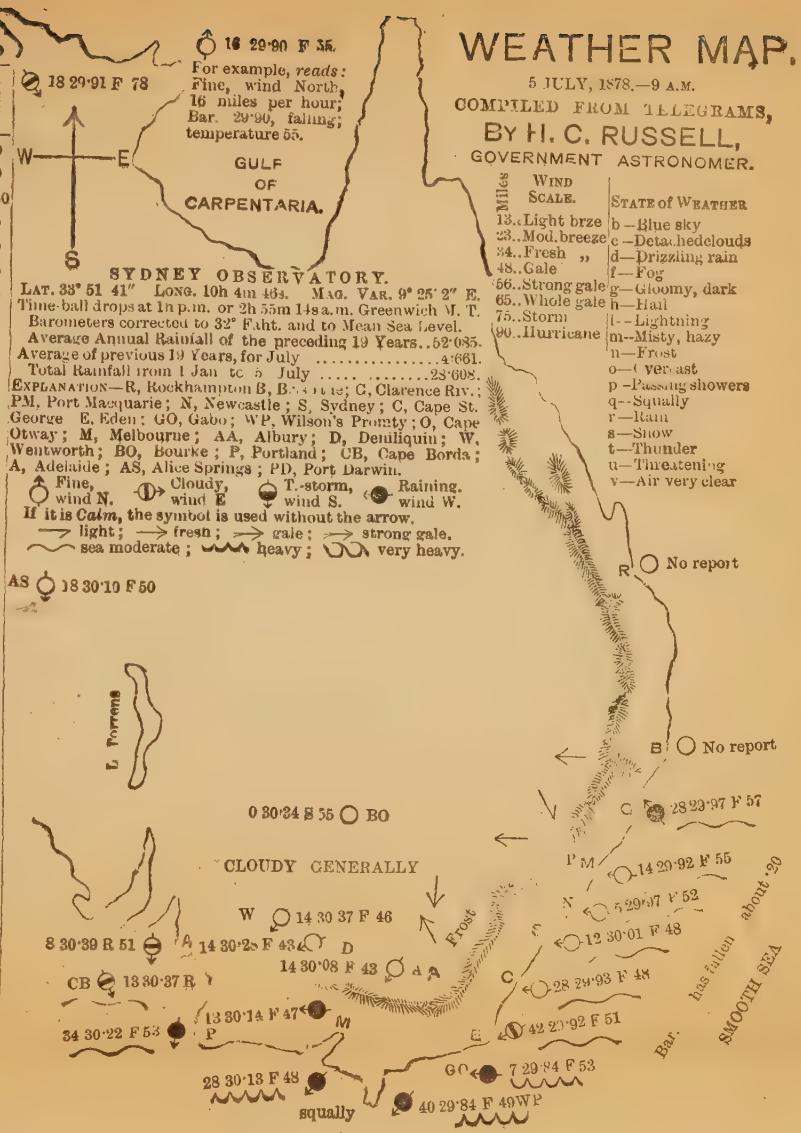
5 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max	Min	Rain
Tenterfield	u	62	41	0
Grafton ..	u	70	52	0
Inverell ..	b	63	34	0·50
Bourke ..	b	71	52	0
Narrabri ..	b	62	43	0
Armidale.	b	56	31	0
Gunnedah	b	66	36	0
Tamworth	..	..	..	..
P. Macquarie	b	66	43	0
Murr'undi	b	57	37	0
Cassilis ..	b	50	34	0
Mus'brook	b	63	42	0
Dubbo ..	c	54	39	0
Mudgee ..	u	63	37	0
Maitland..	b	60	40	0
Newcastle	b	63	41	0
Orange ..	u	48	31	0
Bathurst..	o	51	31	0
Mt Victoria	n	50	30	0
Forbes ..	b	59	32	0
SYDNEY ..	b	57	45	0
Wentw'th.	b	59	36	0
Young ..	c	53	32	0
Wollgong	b	55	56	0
Moss Vale	..	..	..	..
Euston ..	n	63	39	0
Goulburn	c	59	28	0
Wagga ..	u	63	35	0
Cape Geo.	b	57	43	0
Queanbeyan	n	53	30	0
Deniliquin	b	52	30	0
Albury ..	b	56	32	0
Bodalla ..	n	44	29	0
Cooma ..	n	54	28	0
Eden	u	56	45	0
Gabo Isld.	r	54	47	0·16



WEATHER MAP.

6 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wt. Dr.	Max	Min	Rain
Tenterfield	n	54	24	0
Grafton ..	b	76	40	0
Inverell ..	..	..	..	..
Bourke ..	b	60	42	0
Narrabri ..	..	..	..	..
Armidale.	n	56	35	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	63	41	0
Murr'undi	b	53	28	0
Cassilis ..	b	54	30	0
Mus'brook	b	59	36	0
Dubbo ..	b	53	38	0
Mudgee ..	b	67	38	0
Maitland..	b	56	40	0
Newcastle	b	63	42	0
Orange ..	c	44	32	0
Bathurst..	o	47	33	0
Mt Victoria	n	46	29	0
Forbes ..	b	61	27	0
SYDNEY ..	b	59	41	0
Wentw'th.	c	57	43	0
Young ..	n	50	26	0
Wolf'gong	b	58	45	0
Moss Vale	..	..	..	..
Euston ..	..	..	..	..
Goulburn	u	50	29	0
Wagga ..	n	61	37	0
Cape Geo.	b	69	40	0
Queanb'an	n	54	25	0
Deniliquin	n	57	38	0
Albury ..	f	56	27	0
Bodalla ..	n	64	24	0
Cooma ..	n	55	15	0
Eden ..	b	59	46	0
Gabo Isld.	b	52	47	0·22

PD

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

W — E

S

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for July .....4·661.

Total Rainfall from 1 Jan to 6 July .....28·608.

EXPLANATION—R, Rockhampton B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS

L. Torrens

R No report

B No report

Frost

G 28 30·18 R 46

28 30·51 R 50 BO

FINE—CALM GENERALLY

P M 28 30·15 R 48

N 4 30·12 R 43

W 28 30 43 R 49

0 30·42 R 45 D frost

0 30·22 R 35 A A

6 30·21 R 43

C 14 30·12 R 45

Frost

Bar. has risen about ·20

SMOOTH SEA

CB

8 30·29 R 48 M

S 30·31 R 52 P

E 42 30·11 R 50

GO 7 30·01 R 50

23 30·24 R 51

34 29·06 R 48 WP

WEATHER MAP.

8 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max	Min	Rain.
Tenterf'ld	n	50	20	0
Grafton ..	b	71	37	0
Inverell ..	o	55	23	0
Bourke ..	b	57	35	0
Narrabri ..	n	58	31	0
Armidale .	n	54	23	0
Gunnedah	b	65	26	0
Tamworth	..	..	..	..
P. Macqrie	b	61	42	0
Murr'undi	n	54	31	0
Cassilis ..	b	58	24	0
Mus'brook	b	58	26	0
Dubbo ..	n	54	34	0
Mudgee ..	b	6.	28	0
Maitland ..	b	54	31	0
Newcastle	b	62	43	0
Orange ..	n	46	24	0
Bathurst ..	f	50	23	0
Mt Victoria	f.	48	27	0
Forbes ..	b	61	25	0
SYDNEY ..	n	58	40	0
Wentw'th.	n	62	30	0
Young ..	n	53	27	0
Wollongong	b	53	43	0
Moss Vale	..	..	..	..
Euston ..	u	62	27	0
Goulburn	b	30	22	0
Wagga ..	n	61	30	0
Cape Geo.	b	59	40	0
Queanb'an	u	53	26	0
Deniliquin	n	58	39	0
Albury ..	f	57	29	0
Boualla ..	n	58	29	0
Cooma ..	n	46	13	0
Eden	b	58	39	0
Gabo Isld.	b	55	45	0

PD

13 29·93 R 75

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for July .....4·661.
Total Rainfall from 1 Jan to 8 July ....28·610.

EXPLANATION—R, Rockhampton B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 18 30·05 F 47

L. Torrens

B No report

Frost

G 42 30·44 R 46

14 30·55 R 38 BO

FINE—CALM GENERALLY

PM 14 30·33 R 48

N 6 30·37 R 45

S 6 30·38 R 43

Frost

W 14 30·49 R 37

8 30·35 F 46 A 0 30·56 R 35 D Foggy

0 30·36 R 35 A A

C 42 30·29 R 46

CB 23 30·27 F

13 30·39 R 45 M

23 30·36 R 47 P

E 14 30·11 S 43

GO 23 30·22 R 49

18 30·32 R 46

28 30·14 R 49 WP SHOWERY

Bar. has fallen about ·10

Bar. has risen about ·20

WEATHER MAP.

9 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wt. 24.	Max	Min	Rain.
Tenterfield	n	45	20	0
Grafton ..	f	72	40	0
Inverell ..	o	53	26	0
Bourke ..	b	62	39	0
Narrabri ..	b	64	36	0
Armidale .	n	52	28	0
Gunnedah	b	67	27	0
Tamworth	..	..	..	..
P. Macquarie	..	..	..	..
Murr'undi	b	55	32	0
Cassilis ..	b	68	25	0
Mus'brook	b	60	28	0
Dubbo ..	n	53	35	0
Mudgee ..	b	66	28	0
Maitland ..	b	56	32	0
Newcastle	b	64	42	0
Orange ..	b	50	25	0
Bathurst ..	n	56	21	0
Mt Victoria	r	51	30	0
Forbes ..	b	58	33	0
SYDNEY ..	c	60	40	0
Wentw'th.	b	62	33	0
Young ..	n	56	29	0
Wollgong	b	59	45	0
Moss Vale	..	..	..	..
Euston ..	..	..	..	..
Goulburn	u	55	28	0
Wagga ..	n	62	34	0
Cape Geo.	b	63	43	0
Queanbeyan	u	43	27	0
Deniliquin	b	59	35	0
Albury ..	b	56	39	0·05
Bonalla ..	n	64	29	0
Cooma ..	n	53	20	0
Eden	b	57	40	0
Gabo Isld.	b	56	44	0

PD

18 29·90 F 77

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for July .....4·661.

Total Rainfall from 1 Jan to 9 July ....28·614.

EXPLANATION.—R, Rockhampton B. Beach rte; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C. Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
4..	Fresh "
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90.	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS —23·77 F 55

L Torrens

0 30·52 F 43 BO

FINE—CALM GENERALLY

W 14 30·38 F 41

S 30·20 F 53 A 14 30·52 F 38 D

14 30·37 R 37 AA

CB 34 30·07 F

34 30·17 F 49 P

23 30·31 F 49 M

28 30·14 F 50

23 30·11 F 49 WP

GO 28 30·23 R 57

E 14 30·11 S 41

C 14 30·33 R 50

S 6 30·38 S 43

N 5 30·38 F 54

PM 14 30·33 R 48

G 25 30·36 F 47

Fogy

B No report

Fogy

R No report

Frost

Frost

Bar. has fallen about ·20

SMOOTH SEA

Stations.	Wind.	Max.	Min.	Rain.
Inverell'a	u	57	25	0
Grafton ..	t	76	47	0
Everell ..	c	61	33	0
Burke ..	u	71	51	0·02
Narrabri..	u	70	44	0
Armidale.	u	57	35	0
Tamedah	u	55	46	0
Tamworth	..	..	..	..
Macquarie	u	66	50	0
Murr'undi	u	62	49	0
Bassins ..	c	69	31	0
Bus'brook	u	70	39	0
Dubbo ..	p	63	40	0·25
Mudgee ..	r	69	37	0·44
Maitland..	c	63	43	0
Newcastle	u	66	54	0
Orange ..	f	55	39	0·45
Bathurst..	u	61	29	0·25
Victoria	u	58	43	0·05
Forbes ..	p	59	37	0·08
SYDNEY ..	u	62	43	0·11
Bentw'th.	r	65	55	0·24
Young ..	u	61	32	0·50
Wollgong	c	62	45	0
Moss Vale	..	..	..	..
Braiston ..	u	70	49	0·05
Goulburn	u	62	31	0
Albury ..	r	62	45	0·45
Cape Geo.	p	60	54	0·08
Beaub'an	c	57	27	0
Deniliquin	r	64	40	0
Bowry ..	r	62	34	0
Echuca ..	r	59	32	0
Sydney ..	r	61	34	0·10
Cape	u	55	43	0
Lord Hd	r	58	48	0·04

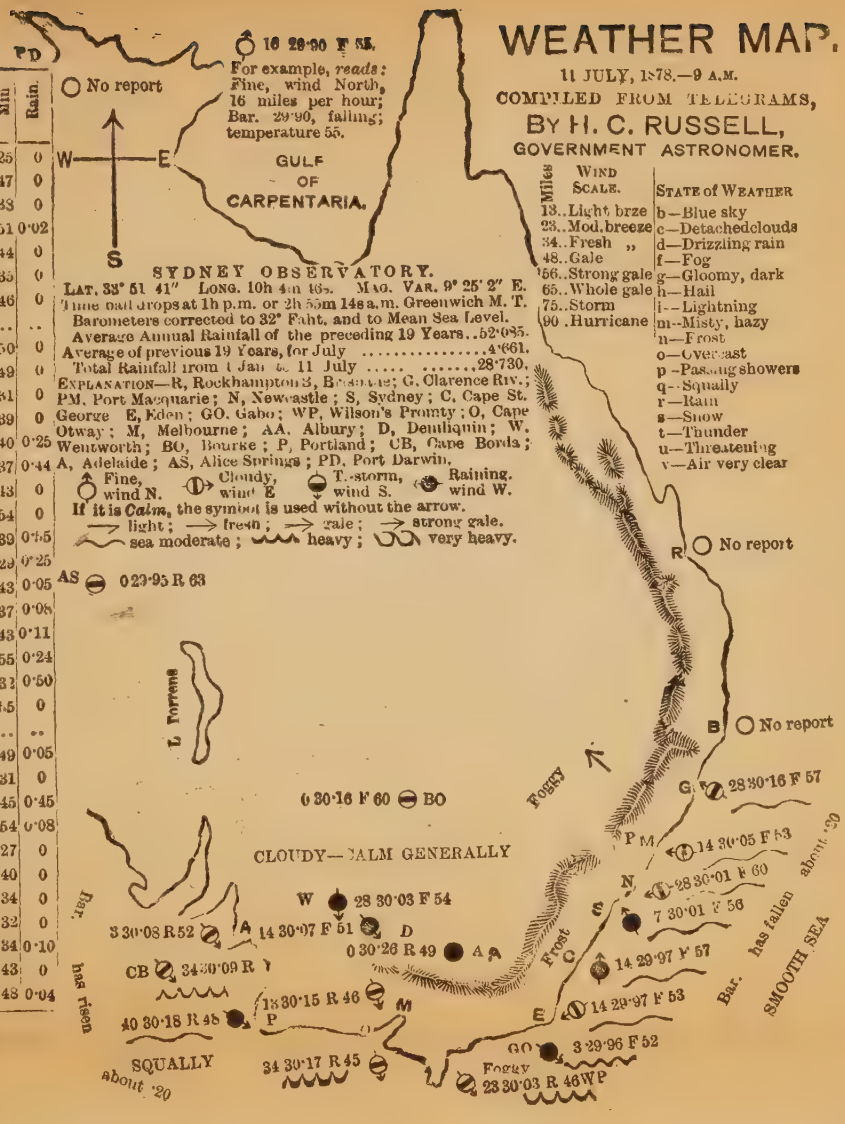
WEATHER MAP.

11 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.



WEATHER MAP.

12 JULY, 1878.—9 A.M.

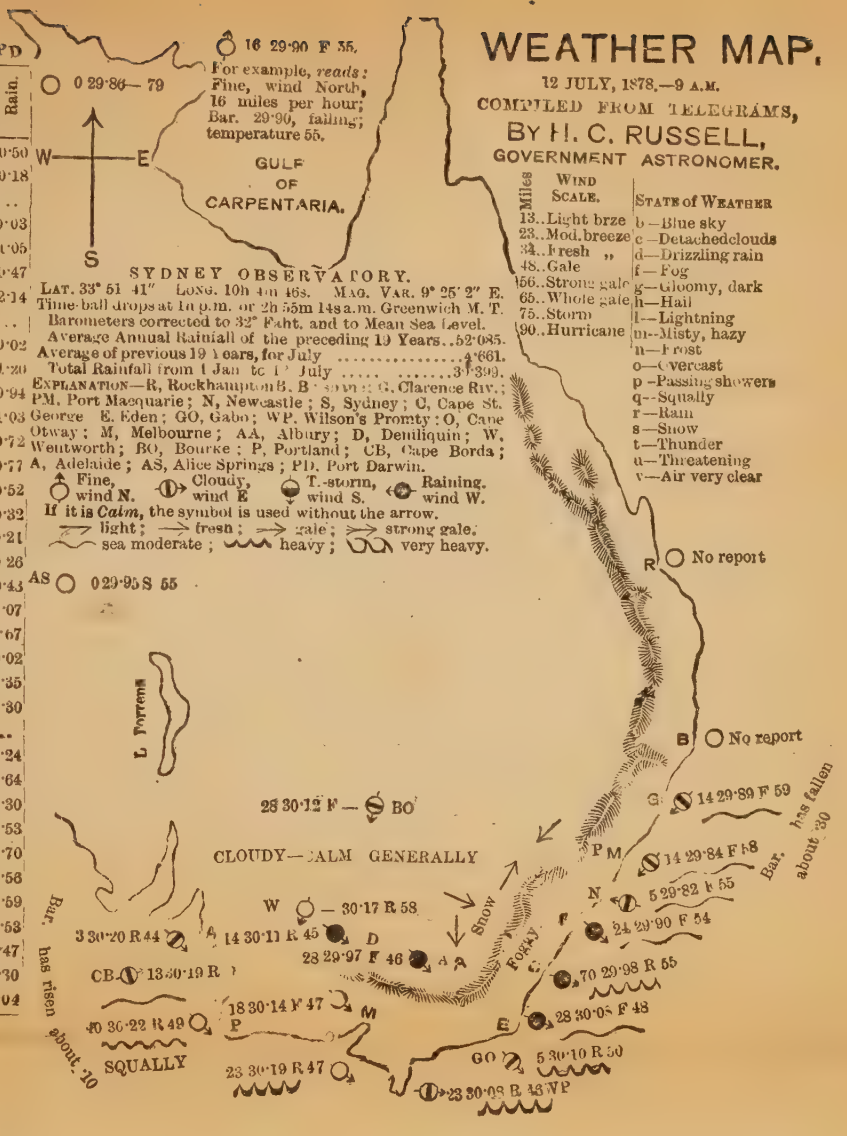
COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max	Min	Rain.
enterfield	p	64	44	0·50
rafton ..	b	75	51	0·18
averell		..	..	..
ourke ..	u	70	51	0·03
arrabri..	r	62	56	0·05
rmidale.	u	56	52	0·47
unnedah	r	60	52	2·14
amworth	..	..	..	..
Macquarie	u	66	53	0·02
urr'undi	u	59	48	1·20
assilis ..	c	59	49	0·94
us'brook	o	65	50	1·03
abbo ..	c	59	50	0·72
ungee ..	o	56	37	0·77
atland..	o	53	54	0·52
ewcastle	o	65	53	0·32
ange ..	o	55	45	0·21
athurst..	u	55	46	0·26
Victoria of		52	39	0·43
rbes ..	r	54	35	1·07
DNEY ..	r	58	54	1·67
outw'th.	b	55	34	0·02
ung ..	r	57	46	1·35
oll gong	r	59	49	1·30
ss Vale	..	..	..	..
ston ..	u	53	42	0·24
ulburn	r	57	39	0·64
..ka ..	r	63	31	0·30
e Geo.	r	57	50	1·53
anb'an	p	57	39	0·70
rliquin	r	52	43	0·56
ary ..	r	60	43	0·59
alla ..	r	54	43	1·53
ma ..	s	47	32	0·47
n	p	54	45	·30
o Isld	u	54	41	0·04

PD



WEATHER MAP.

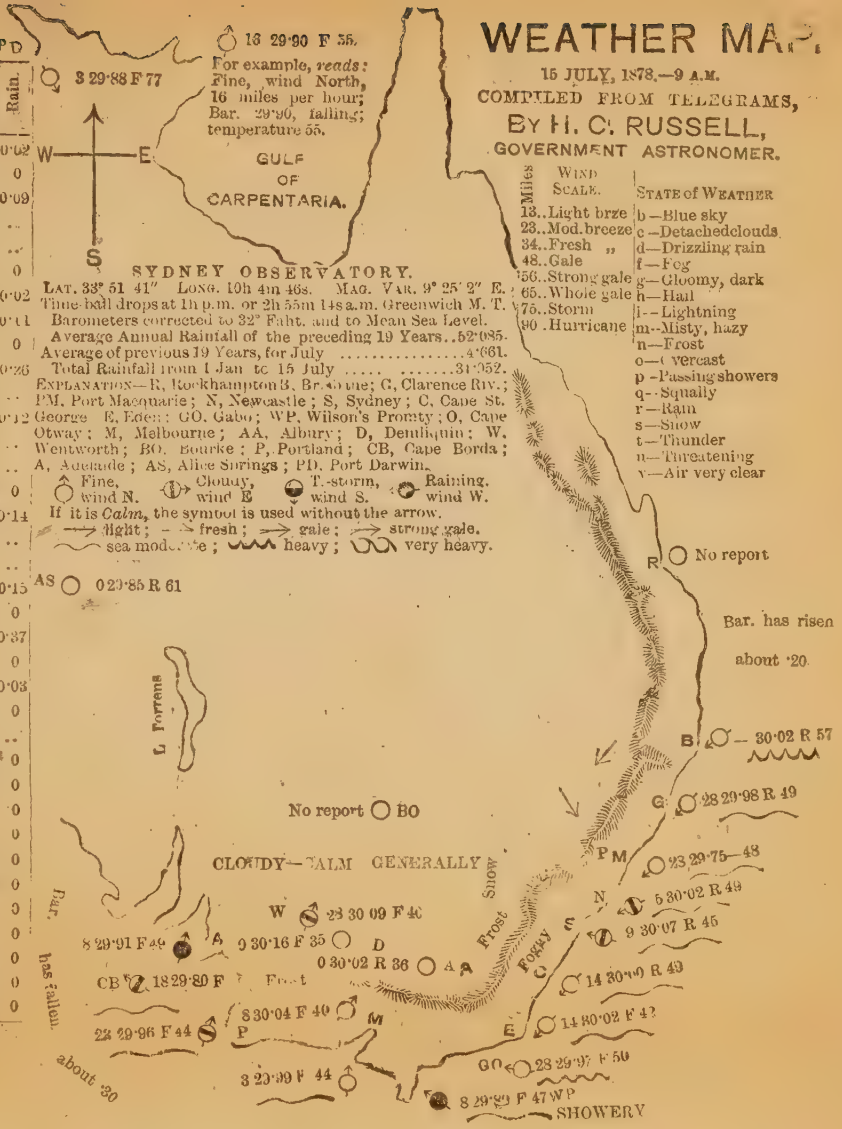
15 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	u	58	25	0·02
Grafton	b	73	48	0
Inverell	g	53	39	0·09
Bourke	..	..	..	..
Narrabri	..	..	..	..
Armidale	u	54	39	0
Gunnedah	g	62	46	0·02
Tamworth	c	61	40	0·11
P. Macquarie	b	61	43	0
Murr'undi	u	52	41	0·26
Cassilis	..	..	..	..
Mus'brook	g	60	45	0·12
Dubbo	..	..	..	..
Mudgee	..	..	..	..
Maitland	b	59	43	0
Newcastle	g	61	46	0·14
Orange	..	..	..	..
Bathurst	..	..	..	..
Mt Victoria	s	50	30	0·15
Forbes	b	52	27	0
SYDNEY	c	56	44	0·37
Wentw'th.	g	58	..	0
Young	n	51	28	0·03
Wollgong	b	61	40	0
Moss Vale	..	..	..	..
Euston	u	52	31	0
Goulburn	n	51	24	0
Wagga	b	61	35	0
Cape Geo.	b	53	42	0
Queanb'an	b	51	28	0
Deniliquin	n	55	29	0
Albury	b	59	26	0
Bodalla	c	59	26	0
Coonia	n	45	19	0
Euen	b	55	38	0
Gabo Isld.	b	54	43	0



WEATHER MAP.

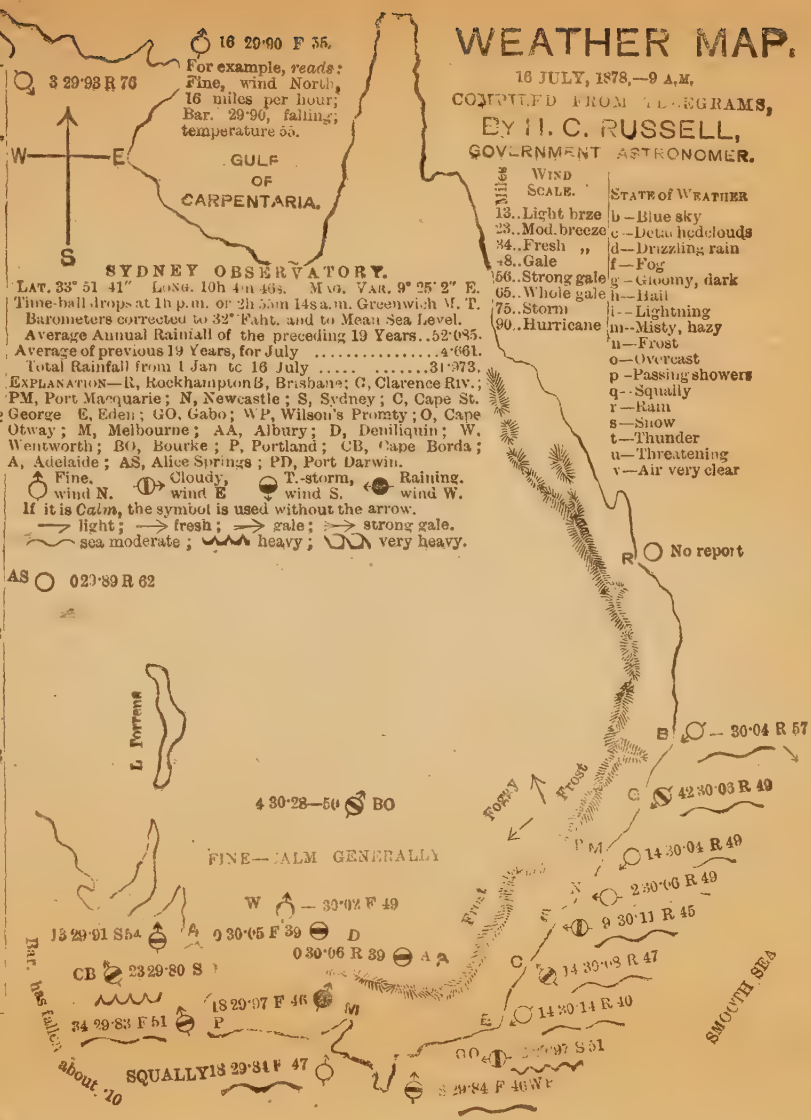
16 JULY, 1878,—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfield	n	59	29	0
Grafton ..	b	73	45	0
Inverell ..	b	57	32	0
Bourke ..	c	63	40	0
Narrabri ..	n	55	33	0
Armidale.	n	49	27	0
Gunnedah	..	..	..	.
Tamworth ..		..	..	..
P. Macqrie	b	61	44	0
Murr'undi	b	53	40	0
Cassilis ..	b	54	33	0
Mus brook	f	57	38	0·02
Dubbo ..	n	55	33	0
Mudgee ..	b	62	31	0
Maitland..	b	59	46	0
Newcastle	b	59	43	0
Orange ..	n	46	23	0
Bathurst..	n	52	28	0
Mt Victoria	n	42	29	0
Forbes ..	b	60	37	0
SYDNEY ..	c	55	44	0·02
Wentw'th.	b	55	36	0
Young ..	n	49	29	0
Wollgong	b	56	42	0
Moss Vale	..	..	..	..
Euston ..	b	50	32	0·02
Goulburn	b	56	24	0
Wagga ..	b	61	35	0
Cape Geo.	b	51	43	0
Queanbeyan	b	51	27	0
Deniliquin	c	54	34	0
Albury ..	c	65	28	0
Bodalla ..	b	62	26	0
Cooma ..	n	45	19	0
Eden	b	53	36	0
Gabo Isld.	c	52	40	0



WEATHER MAP

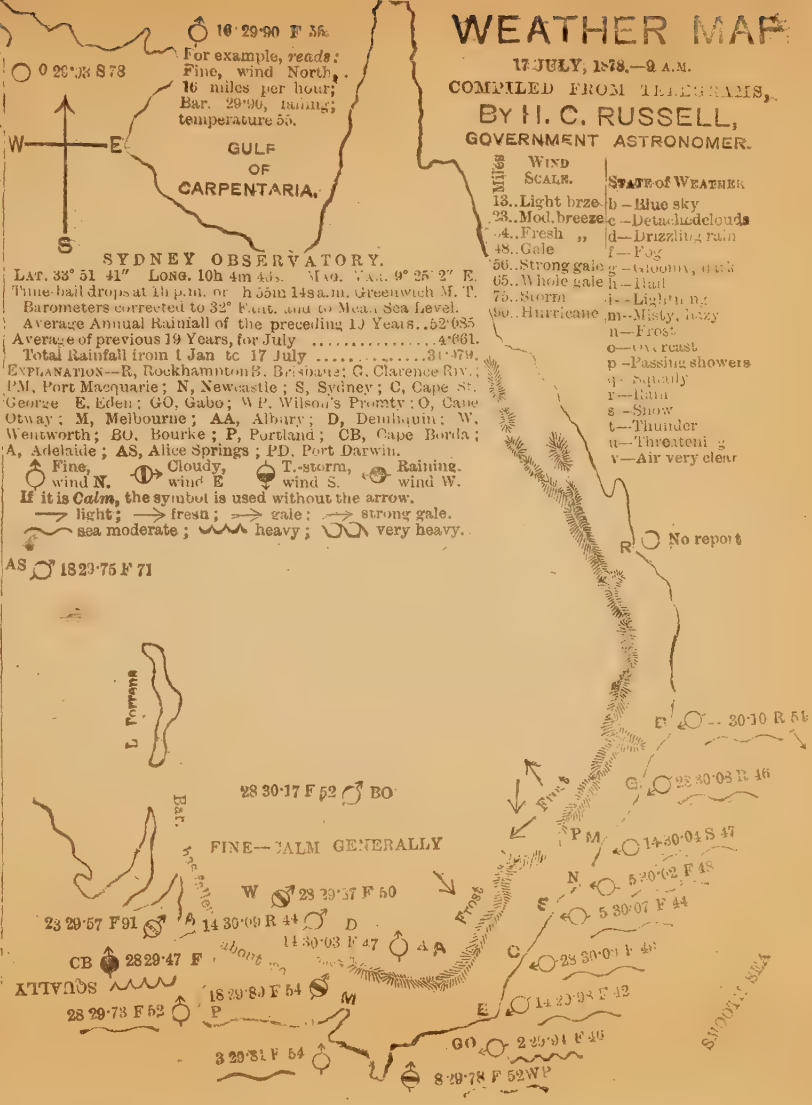
17 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Rockhampton	n	59	25	0
Grafton ..	b	73	42	0
Inverell ..	b	54	40	0
Bourke ..	b	67	45	0
Narrabri..	n	65	33	0
Armidale..	n	49	28	0
Gunnedah	..	..	..	..
Tamworth ..	..	..	..	..
P. Macquarie	b	61	41	0
Murr'umbidi	b	53	31	0
Bassilis ..	b	57	30	0
Mus'brook	b	39	33	0
Dubbo ..	b	55	36	0
Rudgee ..	n	63	30	0
Maitland..	b	56	38	0
Newcastle	b	62	44	0
Orange ..	..	..	..	..
Bathurst..	c	55	27	0
Victoria	n	46	32	0
Forbes ..	b	59	36	0
SYDNEY ..	b	57	41	0·01
Gentw'th.	b	69	47	0
Junee ..	b	50	29	0
Wilcannia	b	60	45	0
Ross Vale	..	..	..	..
Euston ..	c	67	46	0
Echuca ..	b	57	26	0
Wagga ..	b	61	35	0
Cape Geo.	b	56	44	0
Queanbeyan	b	51	28	0
Kennimquin	b	59	41	0
Albury ..	b	57	28	0
Adelaide ..	b	64	25	0
Alice ..	n	45	31	0
Perth	b	53	39	0
Rockh. Isld.	b	64	43	0



WEATHER MAP.

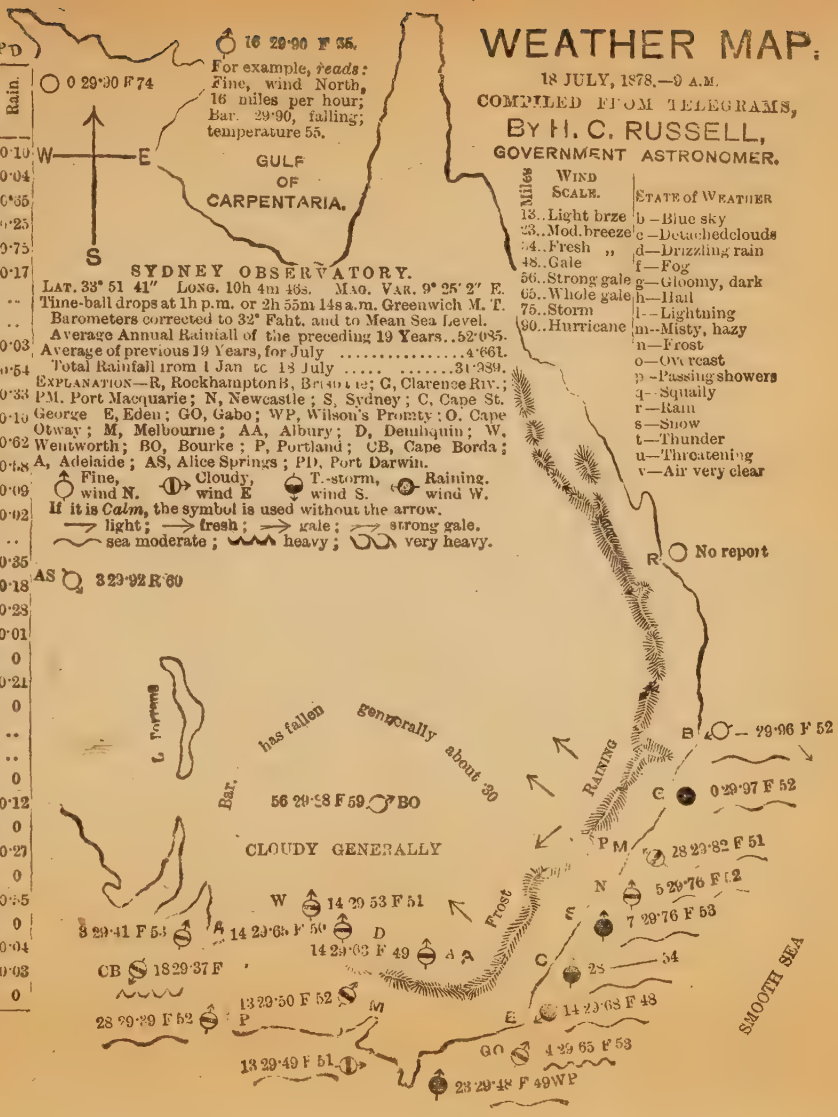
18 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Station.	W'ther.	Max	Min	Rain.
Tenterf'ld	r	58	35	0·10
Grafton ..	r	73	43	0·04
Inverell ..	r	57	38	0·65
Bourke ..	b	67	52	0·25
Narrabri ..	r	64	41	0·75
Armidale .	u	51	25	0·17
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	u	62	45	0·03
Murr'undi	u	54	35	0·54
Cassilis ..	p	65	34	0·33
Mus'brook	u	61	41	0·10
Dubbo ..	p	59	40	0·62
Mudgee ..	r	70	38	0·48
Maitland ..	u	56	43	0·09
Newcastle	c	68	47	0·02
Orange ..	..	..	..	..
Bathurst ..	u	58	30	0·35
Mt Victoria	u	52	38	0·18
Forbes ..	r	58	32	0·28
SYDNEY ..	r	59	44	0·01
Wentw'th.	m	59	46	0
Young ..	g	57	37	0·21
Woll'gong	c	62	46	0
Moss Vale	..	..	..	..
Euston ..	..	..	..	..
Boulburn	u	60	34	0
Yarra ..	u	61	52	0·12
Cape Geo.	r	56	51	0
Queanb'an	r	53	32	0·27
Deniliquin	p	61	41	0
Albury ..	u	63	41	0·05
Bodalla ..	u	71	36	0
Cooma ..	n	56	29	0·04
Eden	p	57	44	0·03
Kano Isld	g	67	45	0



WEATHER MAP.

19 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	b	55	40	0·30
Grafton ..	f	67	45	0·28
Inverell ..	f	57	38	0·28
Bourke ..	b	68	49	0
Narrabri ..	c	67	45	0
Armidale ..	b	52	28	0·16
Gunnedah	b	61	40	0·04
Tamworth	..	..	..	..
P. Macquarie	..	..	..	..
Murr'undi	b	55	35	0·16
Cassilis ..	u	61	48	0
Mus'brook	b	62	46	0·02
Dubbo ..	c	59	48	0
Mudgee ..	g	70	38	0·48
Maitland ..	b	59	43	0
Newcastle	b	61	48	0
Orange ..	r	50	42	0·28
Bathurst ..	p	50	44	0·78
Mt Victoria	u	50	42	0·30
Forbes ..	p	54	35	0·83
SYDNEY ..	b	60	44	0·05
Wentw'th.	c	51	60	0·15
Young ..	r	54	47	0·91
Wollongong	c	60	50	0
Moss Vale	..	..	..	..
Euston ..	r	59	51	0·16
Goulburn	g	56	44	0·05
Wagga ..	u	61	50	0·41
Cape Geo.	g	57	53	0
Queanbeyan	r	49	42	0·34
Deniliquin	r	55	47	0·55
Albury ..	c	54	46	0·46
Bodalla ..	d	64	39	0
Cooma ..	c	54	35	0
Eden	b	58	47	0
Gabo Isld.	f	59	51	0·03

PD

0 29·99 R 79

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for July .....4·661.
Total Rainfall from 1 Jan. to 19 July ....32·039.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

WIND SCALE.

Miles	
13..	Light breeze
23..	Mod. breeze
34..	Fresh "
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 18 29·95 R 59

L. Torrens

28 29·59 R 52 BO

CLOUDY GENERALLY

SNOWY

W 29·58 R 53

23 29·65 R 54 A 0 29·47 F 50 D

0 29·48 F 51 A A

CB 24 29·68 R

SQUALLY

28 29·44 R 52 P

8 29·45 F 48 M

0 29·45 F 52

GO 0 29·39 F 55

Foggy

18 29·32 F 53 WP

B 29·84 F 58

C 23 29·77 F 52

PM 28 29·62 F 60

N 4 29·66 F 57

S 16 29·58 F 58

C 42 56

E 11 29·37 F 48

Bar. has fallen about ·20

SMOOTH SEA

WEATHER MAP.

20 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max	Min	Rain.
Tenterfield	u	57	39	0·10
Grafton ..	b	72	45	0
Inverell ..	r	58	42	0·12
Bourke ..	c	67	47	0
Narrabri ..	u	61	51	0·20
Armidale .	d	46	25	0·23
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	69	48	0
Murr'undi	p	55	35	0·12
Cassilis ..	u	65	48	0·09
Mus'brook	u	66	47	0·01
Dubbo ..	p	60	50	0·13
Mudgee ..	r	59	48	0·17
Maitland ..	u	61	48	0
Newcastle	u	69	49	0·04
Orange ..	p	50	43	0.95
Bathurst ..	u	53	43	0·54
Mt Victoria	g	49	38	0·06
Forbes ..	p	60	37	0·23
SYDNEY ..	u	64	53	0·01
Wentw'th.	..	..	..	..
Young ..	..	..	..	..
Wolf'gong	c	66	47	0
Moss Vale	..	..	..	..
Euston ..	..	..	..	..
Goulburn	u	56	42	0
Wagga ..	p	59	53	0·45
Cape Geo.	c	63	50	0
Queanb'an	g	53	44	0·23
Deniliquin	..	..	..	..
Albury ..	u	55	39	0·30
Bonalla ..	c	55	39	0
Cooma ..	n	56	28	0
Eden	b	59	48	0
Gabo Isld	b	58	51	0·07

PD

8 29·94 F 78

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41" LONG. 10h 4m 15s. MAG. VAR. 9° 25' 2" E.

Time ball drops at 1h p.m. or 2h 5m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085

Average of previous 10 years, for July .....4·061.

Total Rainfall from 1 Jan to 19 July .....32·050.

EXPLANATION.—R, Rockhampton; B, Brisbane; CR, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St George; E, Eden; GO, Gabo; WP, Wilson's Promontory; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. — Cloudy, wind E — T.-storm, wind S. — Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles.	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
55..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
80..	Hurricane

STATE OF WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 0 30·02 R 47

L Torrens

56 30·12 R 50 BO

CLOUDY GENERALLY

W No report

13 30·02 R 53 A No report

D 0 29·73 R 49 A

CB 18 29·91 R

34 29·77 R 53 P

8 29·72 R 54 M

13 29·71 R 52

28 29·49 R 51 WP

GO 32 29·55 R 52

E 14 29·[illegible] R 49

C 14 29·[illegible]

S 9 29·[illegible] R 55

15 29·71 R 56

14 29·73 R 51

C 28 29·87 R [illegible]

B 34 29·[illegible] R [illegible]

SHOWERY

FOGGY FROST

SMOOTH SEA

Bar. has risen about .30

WEATHER MAP.

23 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weath.	Max.	Min.	Rain.
Tenterfield	b	55	30	0
Grafton ..	b	74	41	0
Inverell ..	b	59	35	0
Bourke ..	c	70	54	0
Narrabri ..	b	65	46	0
Armidale.	b	55	30	0
Gunnedah	b	74	40	0
Tamworth	..	..	..	..
P. Macqrie	b	71	46	0
Murr'undi	c	58	39	0
Cassilis ..	b	67	37	0
Mus'brook	b	70	41	0
Dubbo ..	u	61	46	0
Mudgee ..	m	68	39	0
Maitland ..	b	65	44	0
Newcastle	b	70	48	0
Orange ..	b	56	35	0
Bathurst ..	n	60	32	0
Mt Victoria	b	54	37	0
Forbes ..	b	62	39	0
SYDNEY ..	c	67	47	0
Wentw'th.	u	68	42	0
Young ..	b	..	41	0
Wollongong	..	..	..	..
Moss Vale	..	..	..	..
Euston ..	..	..	..	..
Goulburn	c	58	30	0
Wagga ..	b	61	47	0
Cape Geo.	b	62	44	0
Queanbeyan	b	60	33	0
Deniliquin	b	65	43	0
Albury ..	b	63	34	0
Bodalla ..	b	73	30	0
Cooma ..	n	65	20	0
Eden	b	62	42	0
Gabo Isld.	b	61	45	0

WIND SCALE.

Miles	
13..	Light breze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035.
Average of previous 19 Years, for July .....4·661.
Total Rainfall from 1 Jan to 23 July ....32·054.

EXPLANATION—R, Rockhampton B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

PD S 29·08 F 75

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

R No report

AS 13 29·97 F 66

L Torrens

B 3 30·11 F 56

G 28 30·13 R 49

0 30·24 F 58 BO

FINE—CALM GENERALLY

Frost

PM 14 30·06 R 52

N 6 30·09 R 55

S 6 30·10 R 48

W 14 30·03 F 51

8 29·91 F 58

7 30·10 F 49 D

14 30·03 R 47 AA

C 30·12 F 56

CB 13 29·82 F

13 29·96 F 56 M

18 29·87 F 51 P

E 14 30·02 R 46

GO 14 29·97 R 48

18 29·89 F 55

13 29·81 R 57 WP

Bar. has fallen about ·20

Bar. has risen about ·20

SEA

WEATHER MAP.

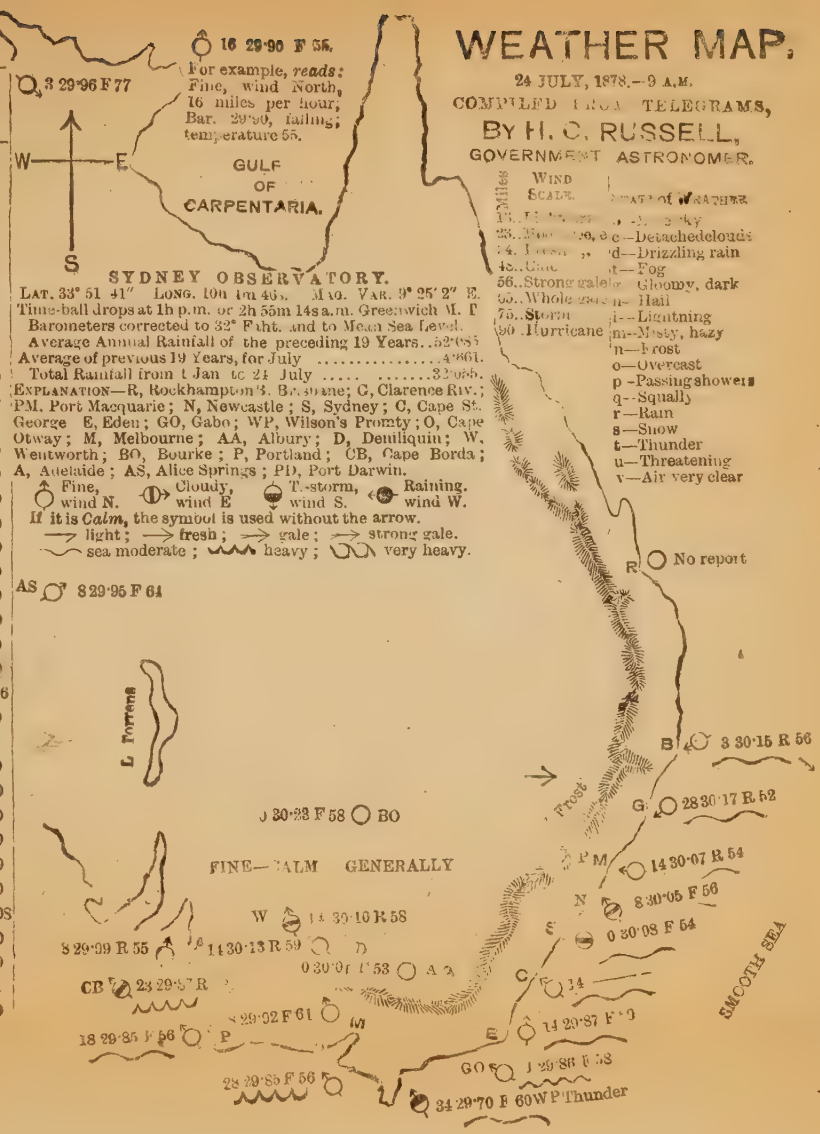
24 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max	Min	Rain.
Centerv'le	b	55	55	0
Grafton ..	b	77	44	0
Inverell ..	b	62	35	0
Bourke ..	b	78	49	0
Narrabri ..	b	72	46	0
Armidale.	n	58	32	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	69	47	0
Murr'undi	b	61	43	0
Cassilis ..	b	69	38	0
Mus'brook	b	71	43	0
Dubbo ..	c	64	46	0
Mudgee ..	b	73	44	0
Maitland..	c	65	47	0
Newcastle	u	75	50	0
Orange ..	b	57	40	0
Bathurst..	c	59	34	0
Mt Victoria	u	57	48	0
Forbes ..	u	61	39	0
SYDNEY ..	c	63	48	0
Wentw'th.	c	67	52	0
Young ..	u	..	49	0·06
Wol'gong	c	68	53	0
Moss Vale	..	..	..	..
Euston ..	b	68	50	0
Goulburn	b	65	37	0
Wagga ..	b	66	41	0
Cape Geo.	b	64	54	0
Queanb'an	b	59	37	0
Deniliquin	b	63	41	0
Albury ..	b	68	45	0·08
Bodalla ..	b	72	38	0
Cooma ..	b	57	33	0
Eden	..	..	..	..
Gabo Isld.	b	65	47	0



SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 1m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·055

Average of previous 19 Years, for July .....4·861.

Total Rainfall from 1 Jan to 24 July .....32·055.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

WEATHER MAP.

25 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max	Min	Rain.
Tenterfield	n	58	35	0
Grafton ..	b	79	47	0
Inverell ..	b	66	37	0
Bourke ..	c	82	56	0
Narrabri ..	b	77	48	0
Armidale .	b	60	33	0
Gunnedah	o	78	43	0
Tamworth ..	..	..	..	..
P. Macqrie	b	67	49	0
Murr'undi	b	64	43	0
Cassilis ..	b	70	42	0
Mus'brook	b	78	48	0
Dubbo ..	c	67	46	0
Mudgee ..	u	75	44	0
Maitland ..	u	64	52	0
Newcastle	u	70	54	0
Orange ..	c	61	46	0·03
Bathurst ..	u	45	44	0·10
Mt Victoria	u	62	49	0
Forbes ..	b	59	37	0·05
SYDNEY ..	c	61	54	0
Wentw'th.	f	58	52	0
Young ..	u	..	49	0·05
Wolf'gong	c	65	56	0
Moss Vale	..	..	..	..
Euston ..	f	73	50	0
Goulburn	f	66	42	0
Wagga ..	u	65	50	0·10
Cape Geo.	u	67	57	0
Queanb'an	c	62	42	0
Deniliquin	u	72	49	0·05
Albury ..	u	71	46	0·07
Bodalla ..	r	78	42	0
Cooma ..	c	74	34	0
Eden	u	66	29	0
Gabo Isld.	m	80	52	0

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for July .....4·661.
Total Rainfall from 1 Jan to 25 July .....32·055.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER
b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

PD 3 29·99 R 79

AS 0 29·92 F 69

R No report

B 3 30·12 F 56

G 28 30·03 F 55

PM 14 30·01 F 55

N 2 29·90 F 58

0 30·03 F 56

C 14 61

E 14 29·95 61

GO 0 29·89 R 53

23 29·73 R 62 WP

28 30·16 F 66 BO

CALM GENERALLY

Foggy

W 14 30·00 F 56

8 29·87 F 58 A

0 30·01 F 55 D

0 29·98 F 51 AA

CB 13 29·81 F

Foggy

13 29·80 F 57

13 29·87 F 55 M

P

23 29·80 F 60

L Torrens

Bar. has fallen generally about ·10

FINE

Frost

CLOUDY

RAINING

SMOOTH SEA

WEATHER MAP.

26 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfield	b	58	38	0
Grafton ..	c	83	44	0
Inverell ..	b	68	40	0
Bourke ..	c	81	46	0
Narrabri ..	u	79	42	0
Armidale.	c	61	35	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	u	68	53	0
Murr'undi	u	67	41	0
Casslis ..	b	74	46	0
Mus'brook	c	75	48	0
Dubbo ..	u	66	52	0
Mudgee ..	u	71	48	0
Maitland..	c	64	50	0
Newcastle	c	72	51	0
Orange ..	p	59	47	0·02
Bathurst..	u	58	45	0·04
Mt Victoria	..	..	..	..
Forbes ..	u	63	39	0
SYDNEY ..	u	62	52	0
Wentw'th.	q	62	42	0·17
Young ..	u	58	49	0·18
Wollgong	b	62	54	0
Moss Vale	..	..	..	..
Euston ..	o	61	47	0·23
Goulburn	u	69	44	0·04
Wagga ..	b	57	..	.0
Cape Geo.	c	66	57	0
Queanb'an	u	56	46	0
Deniliquin	u	60	50	0
Albury ..	u	62	49	0
Bodalla ..	c	61	42	0
Cooma ..	c	56	39	0
Eden	u	62	50	0
Gabo Isld	g	63	53	0·01

PD

3 29·94 F 77

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, raining; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·035.

Average of previous 19 Years, for July .....4·861.

Total Rainfall from 1 Jan to 26 July ....32·057.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 3 30·01 R 65

L Torrens

Foggy 3 30·04 F 60

B

C 28 29·93 F 59

28 30·02 F 62 BO

CLOUDY GENERALLY

PM 14 29·80 F 55

N 6 29·72 F 58

S 6 29·70 F 54

W 56 29·68 F 53

23 29·84 F 52

14 29·63 F 52 D

14 29·61 F 56 A

CB 34 29·83 S

C 42 29·79 —64

SQUALLY

8 29·46 F 57 M

40 29·41 F 50 P

E 14 29·55 F 52

GO 14 29·51 F 53

23 29·41 F 52

23 29·23 F 53 WP

Bar. has fallen

about 40

SMOOTH SEA

WEATHER MAP.

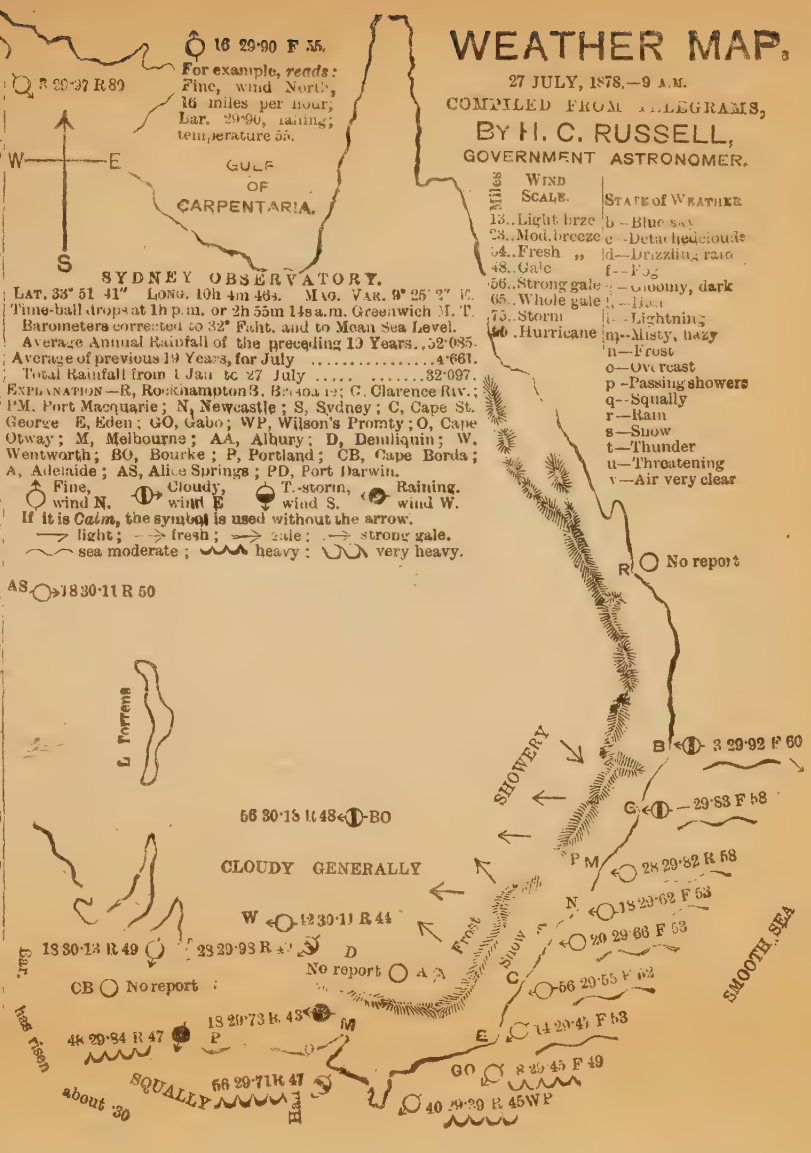
27 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Station	Weather	Max	Min	Rain
PD				
[illegible]	r	53	5	0·30
Grafton	u	70	55	0
Inverell	p	65	43	0·03
Bourke	c	71	50	0
Narrabri	b	73	46	0·05
Armidale	u	65	35	0·63
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	b	70	52	0
Murr'undi	c	64	42	0
Cassilis	b	65	43	0·38
Mus'brook	c	73	46	0
Dubbo	u	61	42	0
Mudgee	r	59	42	0·75
Maitland	b	70	50	0·28
Newcastle	b	79	49	0·24
Orange	p	55	34	0·49
Bathurst	p	56	37	0·42
Mt Victoria	s	57	38	0·18
Forbes	g	62	37	0
SYDNEY	b	71	51	0·04
Wentw'th.	b	58	37	0
Young	g	57	42	0·20
Wollgong	b	71	50	0
Moss Vale	..	..	..	..
Euston	c	57	49	0
Goulburn	c	60	36	0
Wagga	r	61	..	0·18
Cape Geo.	b	69	47	0
Queanbeyan	b	58	37	0·19
Deniliquin	b	61	38	0·05
Albury	..	..	..	..
Bodalla	..	..	..	..
Cooma	n	67	32	0·04
Eden	b	68	48	0
Gabo Isld.	b	70	48	0



WEATHER MAP.

30 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Station.	Weather	Max	Min	Rain.
Tenterfield	n	56	25	0
Grafton ..	b	73	42	0
Inverell ..	b	57	36	0
Bourke ..	b	60	36	0
Narrabri ..	b	60	31	0
Armidale .	n	65	25	0
Gunnedah	n	62	28	0
Tamworth	..	..	..	..
P. Macqrie	b	61	42	0
Murr'undi	n	49	29	0
Cassilis ..	b	59	27	0
Mus'brook	b	59	39	0
Dubbo ..	n	54	36	0
Mudgee ..	n	70	35	0
Maitland ..	b	56	31	0
Newcastle	b	65	42	0
Orange ..	n	46	27	0
Bathurst ..	n	51	27	0
Mt Victoria	n	45	27	0
Forbes ..	b	56	27	0
SYDNEY ..	b	57	40	0
Wentw'th.	b	54	32	0
Young ..	u	53	31	0
Wollongong	b	55	45	0
Moss Vale	..	..	..	..
Euston ..	b	53	31	0
Goulburn	f	54	24	0
Wagga ..	n	68	..	0
Cape Geo.	b	56	44	0
Queanbeyan	n	52	27	0
Deniliquin	n	55	29	0
Albury ..	n	51	28	0
Bodalla ..	b	62	28	0
Cooma ..	n	53	16	0
Eden	b	60	43	0
Gabo Isld.	o	54	45	0·07

PD

13 29·95 F 79

16 29·90 F 55.
For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 45s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035.
Average of previous 19 Years, for July .....2·661.
Total Rainfall from 1 Jan to 30 July ....32·093.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	Wind Scale.	State of Weather
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 3 29·88 F 55
T. Storm

L Torrens

B 3 30·00 R 51

G No report

Frost

0 30·47 R 43 BO

FINE—CALM GENERALLY

PM 28 30·22 R 50

frost

W 14 30·47 R 41

N 14 30·39 R 51

Frost

Foggy

10 30·42 R 44

8 30·39 S 46 A

0 30·49 R 33 D

0 30·34 R 39 AA

C 28 30·33 R 51

CB 18 30·34 R Foggy

8 30·44 R 45 M

13 30·45 R 47 P

E 14 30·46 R 47

Bar. has risen

GO 5 30·30 R 47

13 30·43 R 48

8 30·27 R 27 WP

WEATHER MAP.

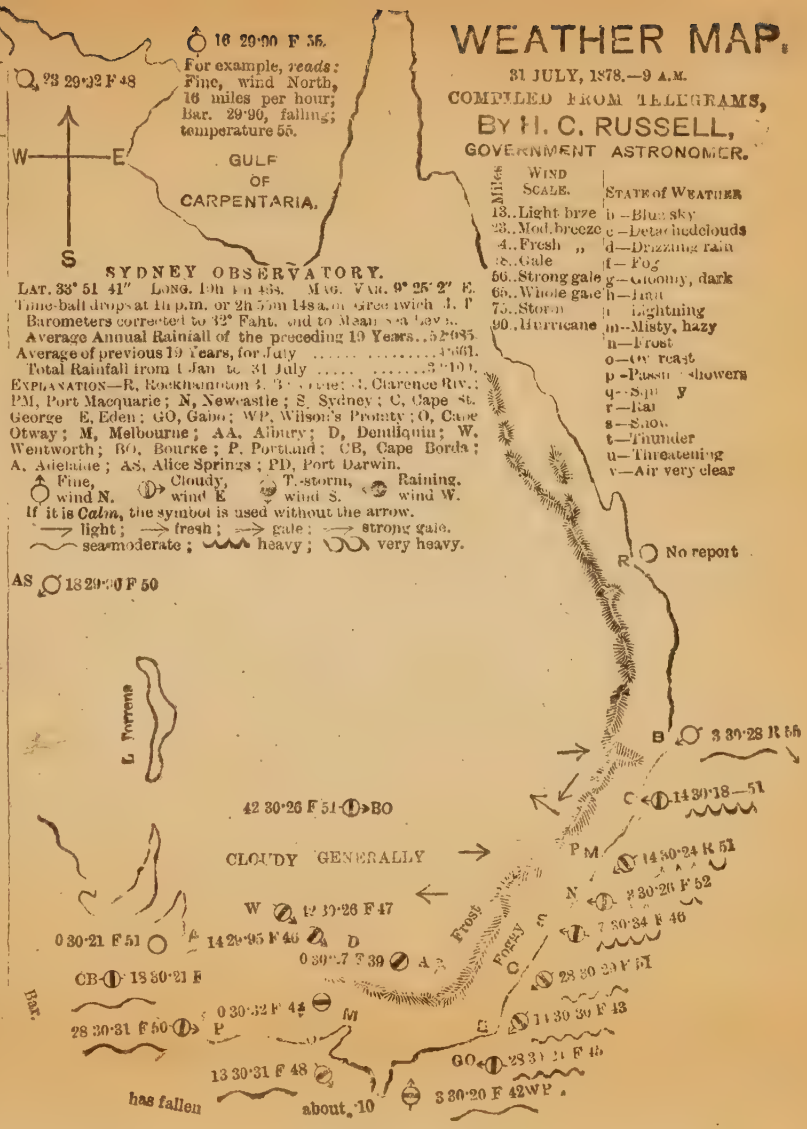
31 JULY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	b	54	30	0
Grafton	u	73	47	0
Inverell	u	56	36	0
Bourke	u	62	42	0
Narrabri	u	64	34	0
Armidale	u	63	34	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	u	65	45	0
Murr'undi	u	52	34	0
Cassilis	u	57	34	0
Musbrook	u	62	42	0
Dubbo	u	57	36	0
Mudgee	u	65	42	0
Maitland	u	55	40	0
Newcastle	u	65	41	0
Orange	u	48	32	0
Bathurst	u	56	32	0
Mt Victoria	f	48	31	0
Forbes	u	58	34	0
SYDNEY	u	57	42	0
Wentw'th	u	58	36	0
Young	u	56	39	0
Wollongong	u	56	45	0
Moss Vale	..	..	..	..
Euston	o	63	36	0
Goulburn	f	57	28	0
Wagga	..	..	..	..
Cape Geo.	c	56	43	0
Queanbeyan	c	53	28	0
Deniliquin	u	60	37	0
Albury	u	39	31	0
Bodalla	..	..	..	..
Cooma	n	54	17	0
Eden	u	54	40	0
Gabo Isld.	c	54	43	0



SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 48s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 59m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean sea level.

Average Annual Rainfall of the preceding 19 Years..52·035

Average of previous 19 Years, for July .....4·361.

Total Rainfall from 1 Jan. to 31 July .....3·101.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promontory; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

WEATHER MAP.

1 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Station	Wt'ther	Max	Min	Rain.
Tenterf'ld	u	56	43	1·13
Stanton ..	u	73	59	1·20
Inverell ..	r	60	36	0·88
Bourke ..	u	59	44	0·75
Narrabri ..	u	69	48	0·54
Armidale ..	t	61	35	0·60
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macquarie ..	..	..	..	..
Murr'undi ..	u	50	38	0·95
Cassino ..	c	56	39	0·47
Musbrook	r	63	3	0·48
Dubbo ..	u	57	35	0·73
Mudgee ..	r	57	34	0·58
Maitland ..	r	57	46	1·31
Newcastle ..	r	66	41	0·85
Orange ..	r	49	38	0·64
Bathurst ..	r	50	36	0
Mt Victoria ..	..	..	..	..
Forbes ..	r	54	33	0
SYDNEY ..	r	55	46	0·72
Wentw'th.	r	54	40	0·05
Young ..	r	52	41	1·05
Wollongong	r	56	47	0·55
Moss Vale	..	..	..	..
Euston ..	u	54	43	0
Goulburn	r	49	33	0
Wagga ..	r	55	..	0·30
Cape Geo.	r	71	48	0·12
Queanbeyan	p	50	31	0·43
Deniliquin	r	53	38	0·02
Albury ..	r	57	36	0·12
Bodalla ..	r	41	34	0
Cooma ..	r	55	31	0·10
Eden	p	55	41	0·09
Gabo Isld	u	57	42	0·22

PD

23 29·92 S 76

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for August .....2·764.
Total Rainfall from 1 Jan to 1 August.....32·820.

EXPLANATION—R, Rockhampton B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. — Cloudy, wind E — T.-storm, wind S. — Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER	
b	Blue sky
c	Detached clouds
d	Drizzling rain
f	Fog
g	Gloomy, dark
h	Hail
l	Lightning
m	Misty, hazy
n	Frost
o	Overcast
p	Passing showers
q	Squally
r	Rain
s	Snow
t	Thunder
u	Threatening
v	Air very clear

AS 18 30·04 F 48

L Torrens

General rain

— 30·00 F 45 BO

CLOUDY GENERALLY

W 28 30·07 F 45

3 30·13 F 45

0 30·02 F 46 D

28 29·92 F 45 AA

CB 8 30·13 F

18 30·04 F 47 M

28 30·12 F 50 P

28 30·09 F 49

23 29·99 F 48 WP

R No report

B 3 29·94 F 58

Thunder

C 42 29·94 F 59

PM No report

N 9 29·86 F 55

S 24 29·91 F 53

C 42 29·91 F 56

E 11 30·05 F 44

GO 14 30·03 F 46

Bar rise falling about .40

WEATHER MAP.

9 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	p	55	30	0·01
Grafton ..	b	73	47	0
Inverell ..	g	60	42	0·15
Bourke ..	b	57	44	0
Narrabri ..	r	59	46	0·12
Armidale ..	r	60	39	0·08
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	b	66	45	1·13
Murrumbidgee	r	54	33	0·26
Cassilis ..	u	57	44	0·04
Muswellbrook	r	65	47	0·01
Dubbo ..	c	54	48	0·23
Mudgee ..	p	52	41	0·21
Maitland ..	p	61	49	0·30
Newcastle	r	66	49	0·78
Orange ..	u	50	32	0·40
Bathurst ..	u	51	40	0·25
Mt Victoria	f	48	34	0·70
Forbes ..	g	52	32	0·15
Sydney ..	r	59	48	2·28
Wentworth	b	54	39	0
Young ..	g	50	44	0·30
Wollongong	p	58	47	4·43
Moss Vale	..	..	..	..
Euston ..	..	..	..	..
Goulburn	g	51	37	1·80
Wagga ..	u	56	50	0·15
Cape Geo.	r	68	60	3·25
Queanbeyan	c	45	28	0·39
Deniliquin	p	47	40	0·25
Albury ..	b	52	39	0·12
Bodalla ..	b	53	38	1·80
Cooma ..	b	42	29	0·08
Eden	u	55	46	0·06
Gabo Isld.	f	52	46	0·01

PD

13 30·01 R 79

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 55s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 10 Years..52·035

Average of previous 19 Years, for August .....2·764.

Total Rainfall from 1 Jan. to 2 August.....35·100.

EXPLANATION—R, Rockhampton; B, Bourke; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles.	WIND SCALE.
13..	Light breeze
23..	Mod. breeze
34..	Fresh "
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 0 30·03 F 47

L. Torrens

28 30·23 R 48 BO

CLOUDY GENERALLY

W 28 30·17 R 15

0 30·22 R 44

0 30·16 R 45 D

14 29·94 R 50 A

CB 13 30·23 R

3 30·08 R 45 M

23 30·14 F 52 P

8 30·09 S 51

Foggy 18 29·92 F 45 WP

GO 1 29·81 F 49

Bar. about 29

R No report

B 8 29·93 F 57

C No report

STORMY

PM

N 24 29·[illegible] F 52

S 29 88 F 49

Foggy

C 12 29·81 F 51

E 29 88 F 48

Bar. about 29

WEATHER MAP

3 AUG., 1878,—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max	Min	Rain.
Tenterfield	u	48	36	0·03
Grafton ..	b	70	44	0
Inverell ..	f	52	38	0·04
Bourke ..	f	59	42	0
Narrabri ..	b	52	42	0
Armidale ..	r	58	40	0·09
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	b	62	45	0
Murr'undi	u	52	30	0·12
Cassilis ..	g	52	41	0
Mus'brook	u	58	43	0·15
Dubbo ..	u	54	46	0·21
Mudgee ..	u	57	43	0·10
Maitland ..	b	58	46	0·04
Newcastle	b	66	45	0
Orange ..	..	..	..	..
Bathurst ..	u	50	40	0
Mt Victoria	c	47	32	0·10
Forbes ..	g	50	33	0·05
SYDNEY ..	b	55	44	0·08
Wentw'th.	c	76	39	0
Young ..	..	..	..	..
Woll'gong	b	54	46	0
Moss Vale	..	..	..	..
Euston ..	b	54	41	0
Goulburn	g	53	38	0
Wagga ..	u	58	42	0
Cape Geo.	b	64	43	1·03
Queanb'an	..	..	..	..
Deniliquin	c	52	32	0
Albury ..	f	60	29	0·03
Bodalla ..	b	61	30	0
Cooma ..	u	47	26	0
Eden	b	56	44	0
Gabo Isld.	g	56	48	0

16 29·90 F 55.
For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.
LAT. 33° 51′ 41″ LONG. 10h 4m 16s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035.
Average of previous 19 Years, for August .....2·764.
Total Rainfall from 1 Jan to 3 August.....35 178.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Wind Scale. Miles
13..Light breeze
23..Mod. breeze
34..Fresh „
48..Gale
60..Strong gale
65..Whole gale
75..Storm
90..Hurricane

State of Weather
b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Cloudy, Fine
h—Hail
r—Rain
m—Misty, hazy
u—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Fine and cold
v—All very clear

No report

AS

L. Torrens

0 30·30 R 44 BO
Foggy
CLOUDY GENERALLY
W 14 30·28 R 44
A 14 30·26 R 45
D Foggy
0 30·01 R 38
A A
Frost
CB
RAINING
8 30·08 S 48
M
P
28 30·16 R 51
13 30·13 R 51
rain
B 8 30 0 R 57
G 14 30·03—50
28 29·91 R 53
N 10 29·92 R 51
S 5 29·97 R 48
C 28 29·81 F 50
E 42 29·53 F 54
GO 7 29·84 S 50
28 29·83 F 50 WP
SMOOTH SEA

WEATHER MAP.

5 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'Dir.	Max.	Min.	Rain.
Tenterf'ld	b	50	34	0
Grafton ..	b	72	59	0
Inverell ..	b	52	40	0·22
Bourke ..	b	60	42	0
Narrabri..	c	59	41	0
Armidale.	r	56	39	0·10
Gunnedah	u	63	38	0·01
Tamworth	..	..	..	..
P. Macqrie	f	62	43	0
Murr'undi	u	52	38	0
Cassilis ..	u	52	37	0
Mus'brook	u	59	35	0
Dubbo ..	p	54	36	0·10
Mudgee ..	u	57	41	0·02
Maitland..	b	57	43	0
Newcastle	b	67	44	0
Orange ..	p	46	36	0·05
Bathurst..	..	..	..	..
Mt Victoria	n	47	30	0
Forbes ..	u	59	36	0·12
SYDNEY ..	b	58	43	0
Wentw'th.	c	58	41	0
Young ..	u	51	40	0·05
Wolloongong	b	62	43	0
Moss Vale	..	..	..	..
Euston ..	c	58	49	0
Goulburn	u	52	35	0
Wagga ..	u	53	42	0
Cape Geo.	c	56	45	0
Queanb'an	c	54	34	0
Deniliquin	u	58	29	0
Albury ..	f	58	32	0
Bodalla ..	b	66	31	0
Cooma ..	n	49	32	0·02
Eden	b	51	43	0
Gabo Isld.	b	52	46	0·12

PD

Wind Scale. Miles

13..Light brze
23..Mod. breeze
34..Fresh „
48..Gale
56..Strong gale
65..Whole gale
75..Storm
90..Hurricane

State of Weather

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squall
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

13 29·90 F 70

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 15s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for August .....2·764.
Total Rainfall from 1 Jan. to 5 August.....35·181.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

R No report

AS 3 30·00 F 56

L Torrens

28 30·29 F 47 BO

CLOUDY GENERALLY

SHOWERY

B 3 30·05 R 55

G 28 30·01 F 48

P 28 29·93 R 50

N 13 29·96 R 50

8 29·99 R 47

28 29·82 R 43

11 29·01 R 49

GO 4 29·87 R 13

28 29·84 R 47 WP

Bar. has risen about ·10

SMOOTH SEA

Frost

W 11 30·19 F 47

3 30·11 F 48

0 30·16 F 46 D Foggy

0 30·02 R 45 A A

CB 18 30·00 F

13 30·04 F 49 M

8 30·08 F 44 P

13 30·04 F 49

Bar. has fallen about ·20

WEATHER MAP.

6 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max	Min	Rain.
Tenterfield	b	52	34	0
Grafton	b	72	31	0
Inverell	b	54	38	0·02
Bourke	b	63	38	0
Narrabri	c	51	32	0
Armidale	c	64	35	0·00
Gunnedah	b	62	37	0·03
Tamworth	..	..	..	..
P. Macquarie	b	63	42	0
Murrumbidi	b	50	33	0·10
Cassilis	b	55	35	0
Muswellbrook	b	40	33	0
Dubbo	..	..	..	..
Mudgee	b	59	35	0·11
Maitland	..	..	..	..
Newcastle	u	66	42	0
Orange	u	46	32	0·02
Bathurst	n	48	30	0
Mt Victoria	n	45	29	0
Forbes	u	54	33	0
SYDNEY	b	49	44	0
Wentw'th.	b	63	38	0
Young	c	50	36	0
Wollongong	b	76	45	0
Moss Vale	..	..	..	..
Euston	..	..	..	..
Goulburn	b	50	27	0
Wagga	b	56	..	0
Cape Geo.	b	57	46	0
Queanbeyan	b	53	29	0
Deniliquin	b	53	32	0
Albury	b	56	28	0
Bodalla	b	65	35	0
Cooma	n	57	28	0
Eden	b	57	42	0
Gabo Isld.	g	55	47	0·08

PD

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

W — E

S

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 49s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 10 Years...52·085.
Average of previous 10 Years, for August .....2·764.
Total Rainfall from 1 Jan to 6 August... .....35·182.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.
13	Light breze
23	Mod breeze
34	Fresh ,,
48	Gale
56	Strong gale
65	Whole gale
75	Storm
90	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
n—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS

L. Ferrens

0 30·41 R 47 BO

FINE—CALM GENERALLY

W 23 30·26 R 50

14 30·35 R 38 D

0 30·16 R 39 A

CB

28 30·05 F 46

8 30·15 R 45 M

P

13 30·03 R 46

18 30·00 R 46 WP

GO 4 30·06 R 45

E 11 30·12 R 47

C 28 29·96 R 53

S 12 30·17 R 48

N 9 30·12 R 49

P 2 30·06 R 51

G 28 30·03 R 50

B 3 30·16 R 57

Frost

Bar. has risen about ·20

SMOOTH SEA

WEATHER MAP.

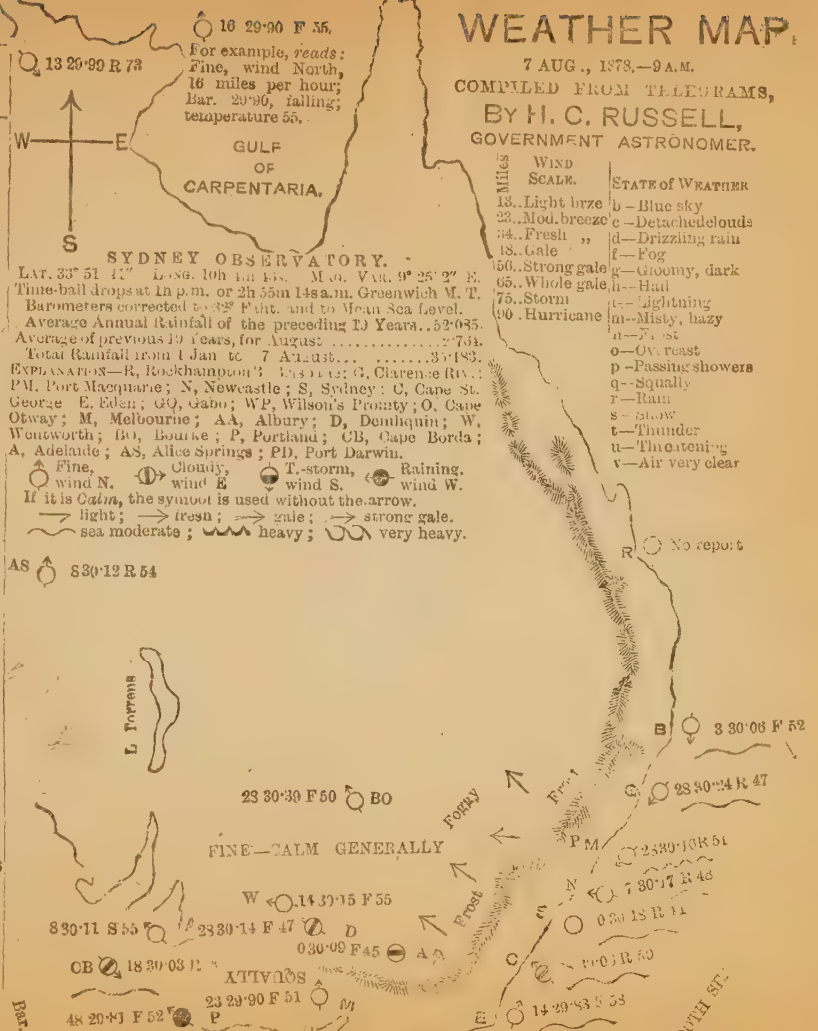
7 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Station.	Weather	Max	Min	Rain.
Tenterfield	n	53	36	0
Grafton ..	b	74	38	0
Inverell ..	b	56	32	0
Bourke ..	b	64	42	0
Narrabri ..	n	58	33	0
Armidale ..	b	62	34	0
Gunnedah	b	71	31	0
Tamworth	..	..	..	..
P. Macqrie	b	62	42	0
Murr'undi	b	52	33	0
Cassilis ..	b	58	32	0
Mus'brook	b	60	43	0
Dubbo ..	b	55	36	0
Mudgee ..	f	62	34	0
Maitland ..	b	58	29	0
Newcastle	p	61	41	0
Orange ..	b	47	31	0
Bathurst ..	f	50	29	0
Mt Victoria	n	47	30	0
Forbes ..	b	58	34	0
SYDNEY ..	b	58	41	0
Wentw'th.	b	60	27	0
Young ..	b	51	39	0
Wol'gong	b	56	44	0
Moss Vale	..	..	..	..
Euston ..	b	65	43	0
Goulburn	b	52	26	0
Wagga ..	u	58	..	0
Cape Geo	b	5[illegible]	41	0
Queanb'an	b	53	30	0
Deniliquin	b	58	34	0·06
Albury ..	u	60	33	0
Bodalla ..	b	68	29	0
Cooma ..	u	59	25	0
Eden	..	..	..	..
Kabo Isld.	..	..	..	..



WEATHER MAP.

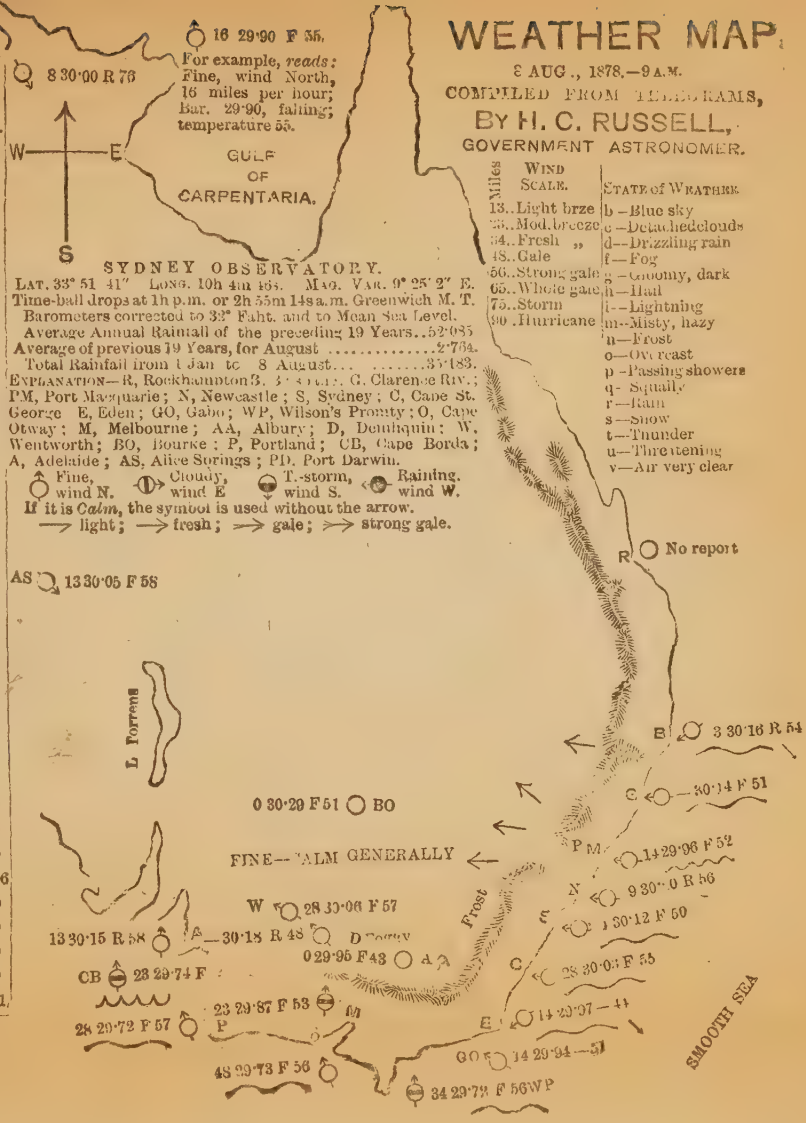
8 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max	Min	Rain.
Tenterfield	b	54	31	0
Grafton ..	b	70	39	0
Inverell ..	b	55	31	0
Bourke ..	b	65	43	0
Narrabri ..	b	72	36	0
Armidale.	b	64	31	0
Gunnedah	b	68	36	0
Tamworth	..	..	..	..
P. Macquarie	b	63	41	0
Murr'undi	b	53	35	0
Cassilis ..	b	62	37	0
Mus'brook	b	66	43	0
Dubbo ..	b	57	41	0
Mudgee ..	b	62	38	0
Maitland..	b	59	43	0
Newcastle	b	66	49	0
Orange ..	b	51	34	0
Bathurst..	b	56	30	0
Mt Victoria	o	50	36	0
Forbes ..	..	..	..	..
SYDNEY ..	b	63	44	0
Wentw'th.	b	70	45	0
Young ..	..	..	..	..
Wollgong	b	61	45	0
Moss Vale	..	..	..	..
Euston ..	c	68	40	0
Goulburn	b	57	36	0
Wagga ..	b	56	..	0
Cape Geo.	b	66	48	0
Queanb'an	b	53	33	0
Deniliquin	b	63	38	0·06
Albury ..	f	54	30	0
Bodalla ..	b	74	29	0
Cooma ..	u	57	20	0
Eden	b	58	49	0
Gr'o Isld.	b	58	47	0·01



WEATHER MAP.

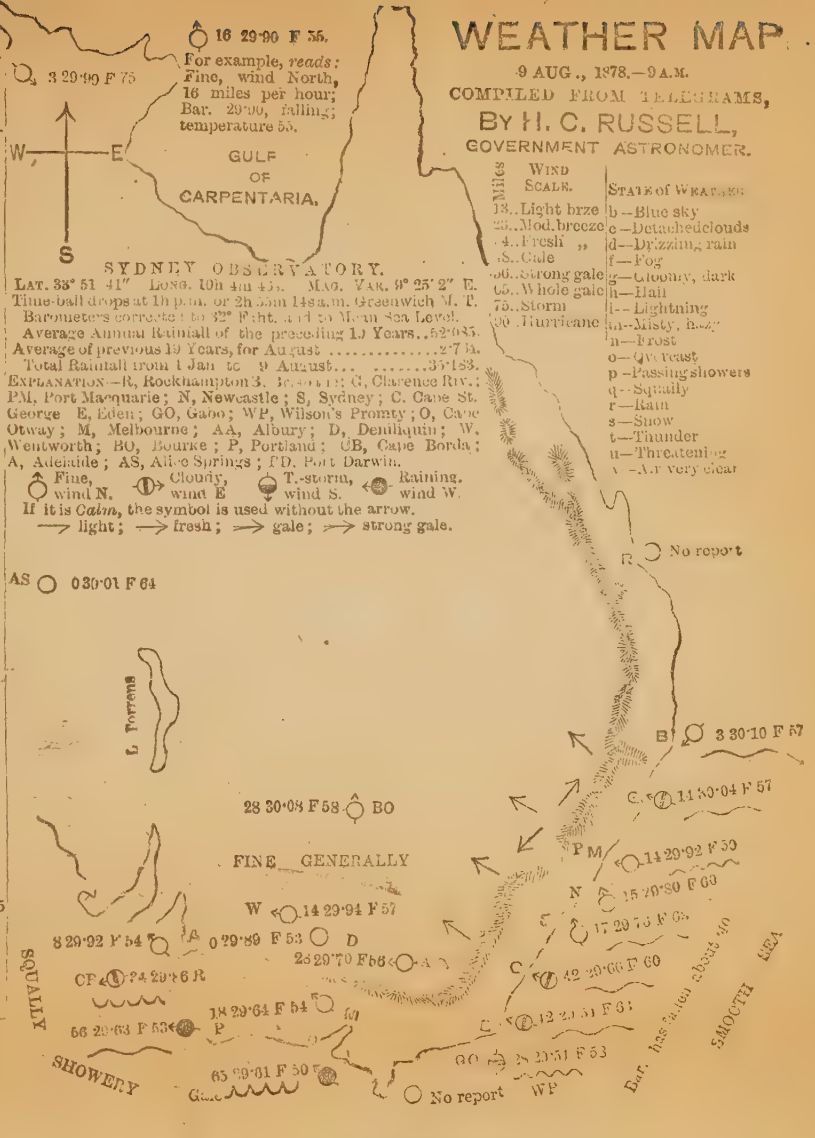
9 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max	Min	Rain.
Tenterfield	b	59	31	0
Grafton ..	b	72	40	0
Inverell ..	b	55	32	0
Bourke ..	b	79	35	0
Narrabri ..	o	77	[illegible]	0
Armidale ..	b	54	34	0
Gunnedah	b	71	37	0
Tamworth	..	..	..	..
P. Macqrie	b	67	49	0
Murr'undi	b	57	31	0
Cassilis ..	b	64	39	0
Mus'brook	b	68	45	0
Dubbo ..	b	61	43	0
Mudgee ..	b	71	35	0
Maitland ..	b	63	43	0
Newcastle	b	71	49	0
Orange ..	c	56	32	0
Bathurst ..	u	63	36	0
Mt Victoria	o	54	41	0
Forbes ..	b	59	35	0
SYDNEY ..	b	66	53	0
Wentw'th.	b	79	53	0
Young ..	u	61	45	0
Wollgong	b	65	53	0
Moss Vale	..	..	..	..
Euston ..	b	77	40	0
Goulburn	u	60	43	0
Wagga ..	r	64	..	0
Cape Geo.	b	69	53	0
Queanb'an	u	58	36	0
Deniliquin	b	70	44	0
Albury ..	b	63	40	0·05
Bodalla ..	b	71	35	0
Cooma ..	b	66	44	0
Eden	b	66	57	0
Gabo Isld.	b	60	51	0



WEATHER MAP.

14 AUG., 1878.—9 A.M.

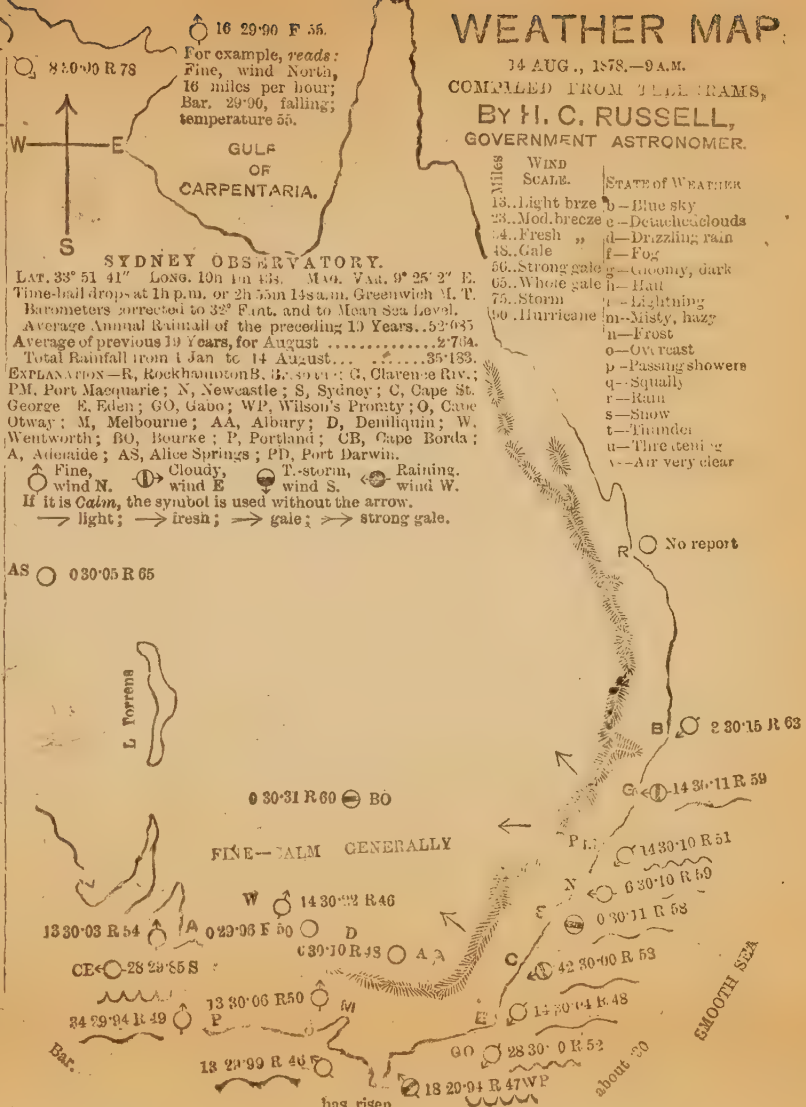
COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wt'her	Max	Min	Rain.
Tenterfield	b	65	37	0
Grafton ..	c	82	53	0
Inverell ..	b	71	34	0
Bourke ..	c	77	51	0
Narrabri..	b	78	41	0
Armidale..	b	62	32	0
Gunnedah	b	83	35	0
Tamworth	..	..	..	..
P. Macqrie	b	75	45	0
Murr'undi	b	63	39	0
Cassilis ..	b	68	35	0
Mus'brook	b	70	44	0
Dubbo ..	b	65	44	0
Mudgee ..	n	74	36	0
Maitland..	b	68	54	0
Newcastle	b	76	48	0
Orange ..	b	54	33	0
Bathurst..	b	59	30	0
Mt Victoria	b	53	40	0
Forbes ..	b	53	33	0
SYDNEY ..	c	68	51	0
Wentw'th.	b	69	36	0
Young ..	b	62	28	0
Woll'gong	c	69	53	0
Moss Vale	..	..	..	..
Euston ..	b	69	40	0
Goulburn	n	58	38	0
Wagga ..	b	65	..	0
Cape Geo.	b	58	51	0
Queanb'an	b	58	40	0
Deniliquin	b	67	39	0
Albury ..	b	65	36	0
Bodalla ..	b	73	40	0
Cooma ..	b	60	32	0
Eden	b	67	45	0
Gabo Isld.	b	76	47	0

PD



WEATHER MAP.

15 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wind.	Max.	Min.	Rain.
Tenterfield	b	67·44		0
Grafton	c	71·80		0
Inverell	b	7[illegible]·31		0
Bourke	u	74·54		0
Narrabri	u	7[illegible]		0
Armidale	u	60·50		0
Gunnedah	u	74·42		0
Tamworth				
P. Macquarie	u	[illegible]		0
Morundah	u	60·45		[illegible]
Cassilis	b	55·45		[illegible]
Muswellbrook	c	70·41		0
Dubbo	p	62·45		[illegible]
Mudgee	r	65·[illegible]		[illegible]
Maitland	u	67·54		[illegible]
Newcastle	u	75·52		[illegible]
Orange	r	55·36		[illegible]
Bathurst	r	59·37		0·09
Mt Victoria	u	56·37		0
Forbes	u	52·35		0
SYDNEY	u	64·52		0
Wentworth	b	72·47		0
Young	r	60·42		0·20
Wollongong	b	64·50		0
Moss Vale				
Euston				
Albury	r	62·48		0
Yass	u	65·[illegible]		0
Cape Geo	c	64·48		0
Queanbeyan	c	61·37		0
Deniliquin	b	66·39		0
Albury	u	64·33		0
Portland	b	66·56		0
Coroma	n	63·28		0
Ceres	b	5[illegible]·52		0
Cape Otway Isld.	b	63·47		0

16 29·90 F 55.
For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

Wind Scale.
15..Light breze
[illegible]..Fresh "
35..Gale
56..Strong gale
65..Whole gale
[illegible] Hurricane

STATE of WEATHER
b—Blue sky
c—Open [illegible] clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hazy
l—Lightening
m—Misty, hazy
r—Frost
o—Overcast
p—Passing showers
q—Squally
[illegible]—Warm
s—Snow
t—Thunder
[illegible]—Lightening
[illegible]—Air very clear

SYDNEY OBSERVATORY.
Lat. 33° 51′ 41″ [illegible] Mag. Var. 9° 25′ 2″ E.
Time of [illegible] at 1 p.m. [illegible]
Average of previous 17 years, for [illegible] .....2·764.
EXPLANATION [illegible] Clarence-River; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George [illegible]; O, Otway, M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth, [illegible]; P, Portland; CB, Cape Borda; [illegible]; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
→ light; → fresh; → gale; → strong gale.

No report

No report

CLOUDY GENERALLY

SQUALLY

SMOOTH SEA

Bar.

has fallen

about 30

SQUALLY

WEATHER MAP.

16 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max	Min	Rain.
Tenterfield	b	75	14	0
Grafton ..	b	81	55	0
Inverell ..	b	73	38	0
Bourke ..	b	75	[illegible]	0
Narrabri ..	b	64	25	0
Armidale ..	b	67	35	0·12
Guyra ..	f	6[illegible]	35	0·01
Tamworth ..	..	..	..	..
P. Macquarie	b	65	49	0·1[illegible]
Murr'undi	c	54	45	0·41
Cassilis ..	b	63	35	0·33
Mus'brook	b	65	43	0·22
Dubbo ..	u	69	47	0·25
Mudgee ..	b	66	41	0·27
Maitland ..	b	60	50	0
Newcastle	b	67	49	0
Orange ..	b	55	34	0·41
Bathurst ..	f	55	33	0·17
Mt Victoria	b	48	38	0
Forbes ..	b	54	33	0
SYDNEY ..	b	65	53	0
Wentw'th.	b	72	44	0
Young ..	b	58	37	0·04
Woll'gong	b	64	51	0
Moss Vale	..	..	..	..
Liston ..	b	73	40	0
Goulburn	b	62	47	0·49
Cooma ..	b	65	..	0
Cape Geo.	b	64	48	0
Queanb'an	b	58	40	0
Braidwoodiquin	b	66	42	0
Albury ..	c	62	42	0·15
Walla ..	b	72	37	0
Deniliquin ..	u	61	38	0
Wilcannia ..	b	67	51	0
Port Isld.	b	67	47	0

PD

Q 8 29·96 F 79

16 29·90 F 55.
For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, raining; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.
LAT. 33° 51′ 41″ LONG. 10h 4m 15s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035.
Average of previous 19 Years, for August .....2·761.
Total Rainfall from 1 Jan. to 16 August.....35·183.

EXPLANATION.—R, Rockhampton; [illegible]; G, Clarence River; P.M., Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promontory; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

→ light; → fresh; → gale; → strong gale.

Miles	Wind Scale.
13..Light breze	
23..Mod. breeze	
34..Fresh "	
48..Gale	
56..Strong gale	
65..Whole gale	
75..Storm	
90..Hurricane	

State of Weather
b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 3 29·71 —58

R No report

L. Torrens

B 3 30·10 F 69

0 30·25 R 59 BO

FORTY

C —30·15 F 63

FINE—CALM GENERALLY

P M 28 30·15 R 52

W 42 29·99 F 54

N 0 30·01 F 57

S 0 30·01 R 58

13 29·90 F 53

14 29·99 F 50

D 0 29·98 R 51

CB 28 29·79 F

SQUALLY

C 28 29·92 S 57

23 29·76 F 51

M

8 29·67 F 50

P

E 14 29·79 F 55

SMOOTH SEA

RAINING

23 29·70 R 43

GO 14 29·79 S 57

18 29·66 R 47 WP

WEATHER MAP.

37 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Station		Wind	Max	Min	Rain
Tenterfield	b	70	46		0
Grafton	b	70	51		0
Inverell	b	65	36		0
Bourke		..	..	..	..
Narrabri	c	50	42		0
Armidale	b	62	37		0
Gunnedah		..	..	..	..
Tamworth		..	..	..	..
P. Macquarie	b	68	46		0
Muriwai	c	55	41		0
Cassilis	c	65	36		0
Muswellbrook	b	67	43		0
Dubbo	c	62	47		0
Mudgee	p	65	41		0
Maitland	c	65	47		0
Newcastle	b	72	49		0
Orange	r	53	37		0·03
Bathurst	c	59	35		0
Victoria	u	53	38		0
Orbes	p	58	33		0·05
SYDNEY	b	68	52		0
Goulburn	b	65	37		0·05
Young	r	60	49		0·03
Gibson	b	65	57		0
Ross Vale		..	..	..	..
Boston		..	..	..	..
Albury	u	59	42		0
[illegible]	p	[illegible]	[illegible]		0·18
[illegible]	c	70	55		0
[illegible]	c	61	41		0·03
[illegible]	b	65	38		0
[illegible]	c	68	40		0·40
[illegible]	c	73	53		0
[illegible]	c	63	34		0·02
[illegible]		..	..	..	..
[illegible] Isld	g	63	47		0·17

Miles Wind Scale.

13..Light breeze
20..Mod. breeze
34..Fresh "
48..Gale
56..Strong gale
65..Whole gale
75..Storm
90..Hurricane

STATE of WEATHER.

b—Blue sky
c—Broken clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. [illegible] 9° 25′ 27″ E.

Time [illegible] 14h 2m 20s [illegible] 14h a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 10 Years...52·035

Total Rainfall from 1st Jan. to 17 August.....27·74

Average of previous 10 Years, for August.....3·183

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

→ light; ⇒ fresh; ⇒ gale; ⇒ strong gale.

PD S 29·97 R 75

16 29·00 F 35.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·00, falling, temperature 55.

W E S

GULF OF CARPENTARIA.

AS 18 30·15 R 55

R No report

B 2 29·98 F 68

C 14 29·88 F 61

PM 19 29·79 F 57

N 5 29·72 F 57

S 8 29·80 F 56

C 42 29·78 F 55

E No report

GO —29·80 R 50

23 29·84 R 48 WP

No report BO

CLOUDY GENERALLY

SHOWERY

W 4 30·30 R 54

S 30·36 R 50

42 30·05 R 45

D 0 29·88 F 46

A

CB 28 30·34 R

SHOWERY

13 30·67 R 47

M

40 30·17 R 49

P

SQUALLY SHOWERY

23 30·11 R 50

Bar. has risen about ·50

Bar. has fallen about ·50

SMOOTH SEA

L. Torrens

WEATHER MAP.

20 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain.
Rockhampton	b	52	49	0
Grafton ..	b	50	45	0
Inverell ..	b	60	30	0
Bourke ..	b	65	42	0
Narrabri ..	b	76	35	0
Armidale .	n	51	30	0
Gunnedah	b	77	32	0
Tamworth	..	..	..	..
P. Macqrie	b	68	44	0
Murr'undi	b	58	52	0
Cassilis ..	b	65	33	0
Mus'brook	b	64	38	0
Dubbo ..	b	63	39	0
Mudgee ..	b	69	37	0
Maitland ..	b	62	43	0
Newcastle	b	71	46	0
Orange ..	b	51	34	0
Bathurst ..	f	53	32	0
Mt Victoria	b	52	30	0
Forbes ..	b	59	37	0
SYDNEY ..	b	66	41	0
Wentw'th.	b	68	35	0
Young ..	n	56	36	0
Wollongong	b	61	47	0
Moss Vale	..	..	..	..
Euston ..	b	66	36	0
Goulburn	n	56	31	0
Yarga ..	b	66	..	0
Cape Geo	b	65	44	0
Queanbeyan	n	62	32	0
Deniliquin	b	62	32	0
Albury ..	b	65	31	0
Bodalla ..	n	72	30	0
Cooma ..	b	61	22	0
Eden	b	64	49	0
Cabo Isld	b	58	50	0

PD

18 30·04 F 75

16 29·90 F 55.

For example, *reads*: Fine, wind North 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 10 p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035
Average of previous 19 Years, for August .....2·764.
Total Rainfall from 1 Jan to 20 August... .....35·139

EXPLANATION.—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

WIND SCALE.

Miles	
13..	Light brze
23..	Mod. breeze
34..	Fresh "
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
80..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Thunderstorm
v—Air very clear

R No report

AS 0 30·13 F 68

L. Torrens

B No report

28 30·02 S 51 BO

FINE—CALM GENERALLY

Forty Five

G 28 30·37 —58

PM 28 30·36 R 55

N 6 30·17 R 56

S 6 30·44 R 52

C 28 30·25 R 53

E 42 30·32 R 53

GO 5 30·25 R 52

34 30·21 R 51 WP

Bar. has risen

SMOOTH SEA

about 40

W 14 30·60 R 49

3 30·55 R 51

A 30·66 R 40

D

0 20·42 R 44

A

Frost

Fogge

CB 18 30·48 R

13 30·52 R 51

M

0 30·53 R 48

P

13 30·54 R 52

WEATHER MAP.

21 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Station...	Wind	Max	Min	Rain
Tenterfield	b	59 33		0
Grafton ..	b	80 57		0
Inverell ..	b	64 31		0
Bourke ..	b	71 39		0
Narrabri ..	b	85 36		0
Armidale ..	b	58 30		0
Gunnedah	..	..	..	..
Tamworth ..	..	..	..	..
P. Macqrie	b	67 43		0
Murr'undi	b	59 41		0
Cassilis ..	b	67 52		0
Mts Broon	b	66 37		0
Dubbo ..	b	62 40		0
Mudgee ..	b	74 37		0
Maitland ..	b	62 40		0
Newcastle	b	67 44		0
Orange ..	b	57 31		0
Bathurst ..	b	65 29		0
Mt Victoria	b	67 54		0
Forbes ..	b	62 31		0
SYDNEY ..	b	65 45		0
Wentw'th.	b	80 33		0
Young ..	b	58 36		0
Wollgong	b	64 45		0
Moss Vale	..	..	..	..
Euston ..	b	65 32		0
Goulburn	n	63 29		0
Wagga ..	b	66 ..		0
Cape Geo.	b	65 44		0
Queanbeyan	n	63 31		0
Deniliquin	b	62 30		0
Albury ..	f	66 32		0
Bodalla ..	b	69 28		0
Cooma ..	n	66 21		0
Eden	b	64 40		0
Gabo Isld	b	59 45		0

PD

No report

16 29·90 F 35.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

Miles Wind Scale.

13..Light breze
23..Mod. breeze
34..Fresh „
45..Gale
156..Strong gale
65..Whole gale
70..Storm
80..Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Dew frost
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Very clear

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 40s. MAG. VAR. 9° 25′ 2″ E.

Time ball drops at 1h p.m. or 2h 30m P.M. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea level.

Average Annual Rainfall of the preceding 19 Years...52·03

Average of previous 19 Years, for August ....2·74

Total Rainfall from 1 Jan. to 21 August... .....3·136

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

AS 8 30·19 R 53

No report

L. Torrens

B 3 30·45—61

G 28 30·33 F 55

0 30·60 R 52 BO

FINE—CALM GENERALLY

P M 14 30·22 F 54

N 7 30·19 R 57

S 6 30·47 R 50

W 14 30·54 F 49

D Foggy

13 30·44 F 57

14 30·56 F 41

0 29·46 R 42 A

C 15 30·42 R 54

CB 18 30·33 F

13 30·42 F 49 M

14 30·40 R 55

Bar. has fallen about ·20

28 30·36 F 51 P

13 30·34 F 56

GO 28 30·32 R 47

18 30·23 R 52 WP

Bar. has risen about ·10

SMOOTH SEA

WEATHER MAP.

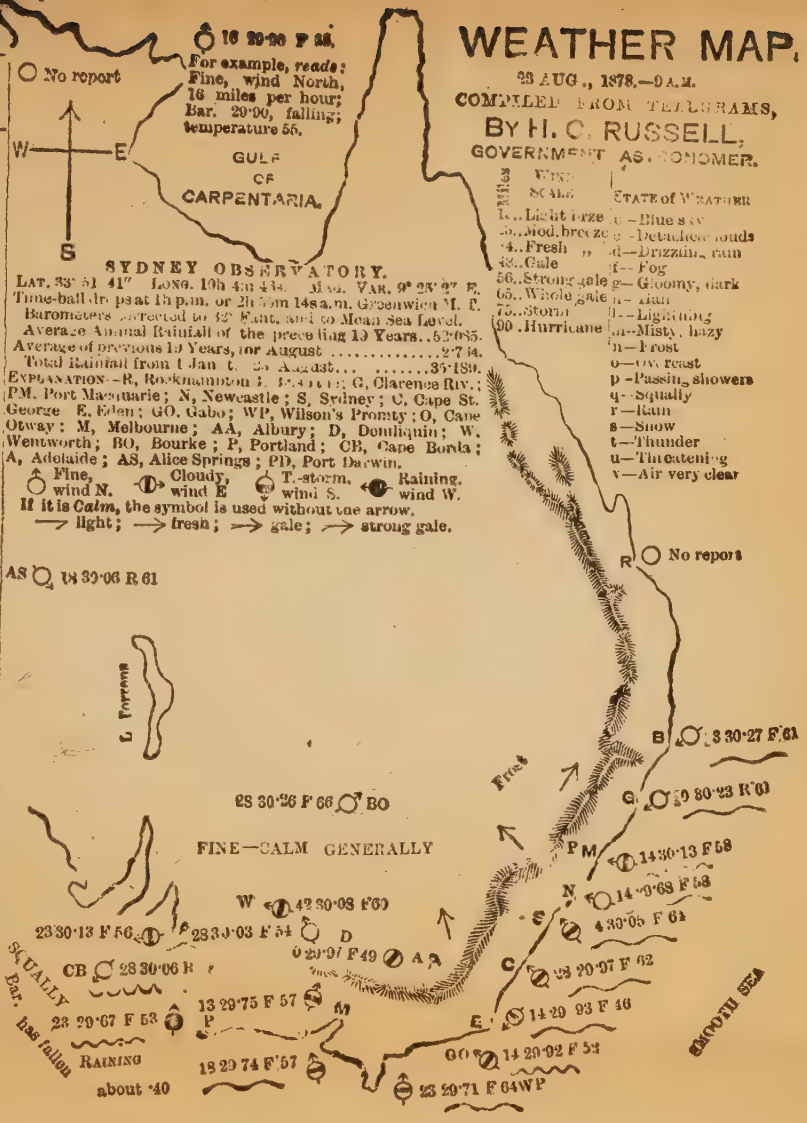
28 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wind	Max	Min	Rain.
Tenterfield	b	55	32	0
Grafton ..	b	83	57	0
Inverell ..	b	66	36	0
Bourke ..	b	81	60	0
Narrabri..	b	80	42	0
Armidale.	b	60	33	0
Gunnedah	b	80	42	0
Tamworth	..	..	..	..
P. Macquarie	b	69	47	0
Murr'undi	c	68	39	0
Cassilis ..	b	60	37	0
Mus'brook	b	74	36	0
Dubbo ..	b	64	46	0
Mudgee ..	n	75	40	0
Maitland..	b	67	45	0
Newcastle	b	72	45	0
Orange ..	..	..	..	..
Bathurst..	b	68	33	0
ittVictoria	b	60	45	0
orbes ..	b	65	37	0
YDNEY ..	c	67	52	0
Wentw'th.	c	74	47	0
oung ..	b	61	39	0
Woll'gong	b	64	52	0
Moss Vale	..	..	..	..
uston ..	b	76	45	0
oulburn	b	66	40	0
Yagga ..	b	66	..	0
ape Geo.	b	66	54	0
ueanbeyan	b	64	32	0
emiliquin	b	70	42	0
lbury ..	c	63	33	0
odalla ..	c	74	33	0
oma ..	c	72	32	0
den	b	58	44	0
ido Isld.	c	69	47	0



WEATHER MAP,

26 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max	Min	Rain
Tenterfield	b	68	33	0
Grafton ..	b	80	39	0
Inverell ..	b	66	36	
Bourke ..	b	75	47	0
Narrabri ..	b	82	41	0
Armidale ..	b	62	35	0
Gunnedah	b	78	35	0
Tamworth ..	..	..	..	..
P. Macquarie	b	69	48	0
Murr'undi	b	64	36	0
Cassilis ..	b	69	34	0
Mus'brook	b	72	40	0
Dubbo ..	b	65	43	0
Mudgee ..	b	81	39	0
Maitland ..	b	68	45	0
Newcastle	b	70	47	0
Orange ..	n	57	32	0
Bathurst ..	b	69	32	0
Mt Victoria	b	60	33	0
Forbes ..	b	72	41	0
SYDNEY ..	b	68	47	0
Wentw'th.	b	77	43	0
Young ..	b	68	40	0
Wollongong	b	64	47	0
Moss Vale	..	..	..	..
Euston ..	b	76	43	0
Goulburn	b	61	31	0
Wagga ..	b	73	..	0
Cape Geo.	b	67	47	0
Queanb'an	b	68	35	0
Deniliquin	b	69	40	0
Albury ..	b	68	35	0
Hodalia ..	b	76	35	0
Booma ..	n	50	23	0
Sale	b	67	46	0
Gabo Isld.	b	57	46	0

PD

3 29·92 – 80

16 29·90 F 35

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 49s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 30m 1s a.m. Greenwich M. T.

Barometers corrected to 32° Fent. and to Mean Sea Level.

Average Annual Rainfall of the preceding 15 Years..52·035.

Average of previous 10 Years, for August ....2·734.

Total Rainfall from 1 Jan. to 26 August... .....35·191.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

→ light; → fresh; → gale; → strong gale.

Miles	WIND SCALE.	STATE of WEATHER
18	Light breeze	b—Blue sky
33	Mod. breeze	c—Detached clouds
54	Fresh "	d—Drizzling rain
48	Gale	f—Fog
56	Strong gale	g—Gloomy, dark
65	Whole gale	h—Hail
75	Storm	l—Lightning
90	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 3 30·10 R 64

L. Torrens

B 3 30·35 R 68

G 14 30·36 R 61

28 30·67 R 56 BO

FINE

PM 14 30·34 R 68

N 5 30·36 R 59

W 0 30·40 R 53

0 30·40 R 53

8 30·28 F 65

0 30·50 R 52

D

14 29·93 R 45

CE 18 30·21 F

C 28 30·52 R 53

13 30·30 R 59

P

28 30·18 F 19

24 30·38 R 52

GO 11 30·29 R 53

23 30·18 S 62

23 30·03 R 60 WP

Bar. has fallen about ·10

Fresh

Bar. has risen about ·02

SMOOTH SEA

Stations.	Wy.	Max.	Min.	Rain.
Tenterfield	b	70	46	0
Grafton ..	b	83	41	0
Inverell ..	b	69	30	0
Bourke ..	b	78	48	0
Narrabri..	b	67	32	0
Armidale.	b	65	32	0
Gunnedah	b	81	37	0
Tamworth	..	..	..	..
P. Macqrie	b	70	37	0
Murr'undi	b	65	35	0
Cassilis ..	b	73	34	0
Mus'brook	b	..	35	0
Dubbo ..	b	65	44	0
Mudgee ..	b	77	35	0
Maitland..	f	65	47	0
Newcastle	b	70	47	0
Orange ..	b	61	35	0
Bathurst..	b	69	32	0
Mt Victoria	b	65	40	0
Forbes ..	b	76	47	0
SYDNEY ..	f	65	47	0·01
Ventw'th.	b	81	35	0·01
Young ..	b	66	41	0
Woll'gong	b	64	52	0
Moss Vale	..	..	..	..
Euston ..	b	82	41	0
Goulburn	b	69	33	0
Wagga ..	b	67	..	0
Cape Geo.	b	63	50	0
Queanb'n	b	61	35	0
Deniliquin	b	75	43	0
Albury ..	f	70	39	0
Bodalla ..	n	73	35	0
Cooma ..	n	71	28	0
Eden	b	67	44	0
Lord Hd	b	70	49	0

WEATHER MAP,

27 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

WIND SCALE.

Miles	
13..	Light breze
24..	Mod. breeze
34..	Fresh "
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE OF WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

10 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

3 29·96 R 80

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 15s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 5m 11s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea level.
Average Annual Rainfall of the preceding 10 Years..52·035.
Average of previous 10 Years, for August ....2·734.
Total Rainfall from 1 Jan to 27 August... .....35·193.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

→ light; → fresh; → gale; → strong gale.

AS 0 29·95 F 67

L. Torrens

0 30·41 R 62 BO

FINE

Bar. has fallen about ·29

W — 30·27 F 59

8 30·11 F 68

14 30·31 F 54

D

CB 28 30·06 F

23 30·11 F 60 M

13 30·18 S 58

8 30·13 F 55

Forty Fives

R No report

B 3 30·39 R 71

G No report

PM 14 30·20 F 56

N 8 30·10 F 54

S 4 30·20 F 52

C 4 30·28 F 57

E 14 30·16 F 53

GO 14 30·14 F 58

13 30·29 R 62 WP

SMOOTH SEA

WEATHER MAP,

28 AUG., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wind	Sky	Max	Min	Rain
Tenterfield	b		71	42	0
Grafton ..	b		83	54	0
Inverell ..	u		7.	42	0
Bourke ..	b		79	59	0
Narrabri..	c		91	3.	0
Armidale.	c		..	..	0
Gunnedah	c		80	42	0
Tamworth	..		..	..	..
P. Macqrie	b		74	51	0
Murr'undi	c		65	42	0
Cassilis ..	b		78	39	0
Mus'brook	b		..	42	0
Dubbo ..	b		60	4.	0
Mudgee ..	u		7.	..	0
Maitland..	c		70	44	0
Newcastle	h		75	47	0
Orange ..	b		61	35	0
Bathurst..	b		70	33	0
ltVictoria	b		62	4.	0
Forbes ..	b		78	45	0
SYDNEY ..	b		69	48	0
Wentw'th.	r		83	53	0
Young ..	b		61	41	0
Wollongong	b		6.	52	0
Moss Vale	..		..	..	..
Euston ..	u		82	57	0
Goulburn	n		72	31	0
Wagga ..	b		76	..	0
Cape Geo.	c		68	50	0
Queanbeyan	b		68	35	0
Semiquin	u		79	48	0
Albury ..	c		73	37	0
Bodalla ..	b		77	35	0
Broma ..	n		70	25	0
Eden ..	b		68	46	0
Cabo Isld	m		71	51	0

PD

16 29·90 F 56.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10 h 04 m 43s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 10 a.m. or 2h 00m 1s a.m. Greenwich M.T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 10 Years..52·035.

Average of previous 10 Years, for August .....2·764.

Total Rainfall from 1 Jan. to 28 August... .....37·198.

EXPLANATIONS—R, Rockhampton; G, Gayndah; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

→ light; → fresh; → gale; → strong gale.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh "
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

B 30·94 F 65

C No report

L Torrens

23 30·19 F 72 BO

FINE GENERALLY

PM 14 30·08 F 59

N 6 30·01 F 61

S 6 30·02 F 54

W 0 29·94 F 53

23 29·91 F 53 D

C 29·92 F 50 AS

CB

C 14 29·97 F 53

24 29·79 F 52 P

23 29·75 F 57 M

E 14 29·75 F 56

GO 14 29·86 F 53

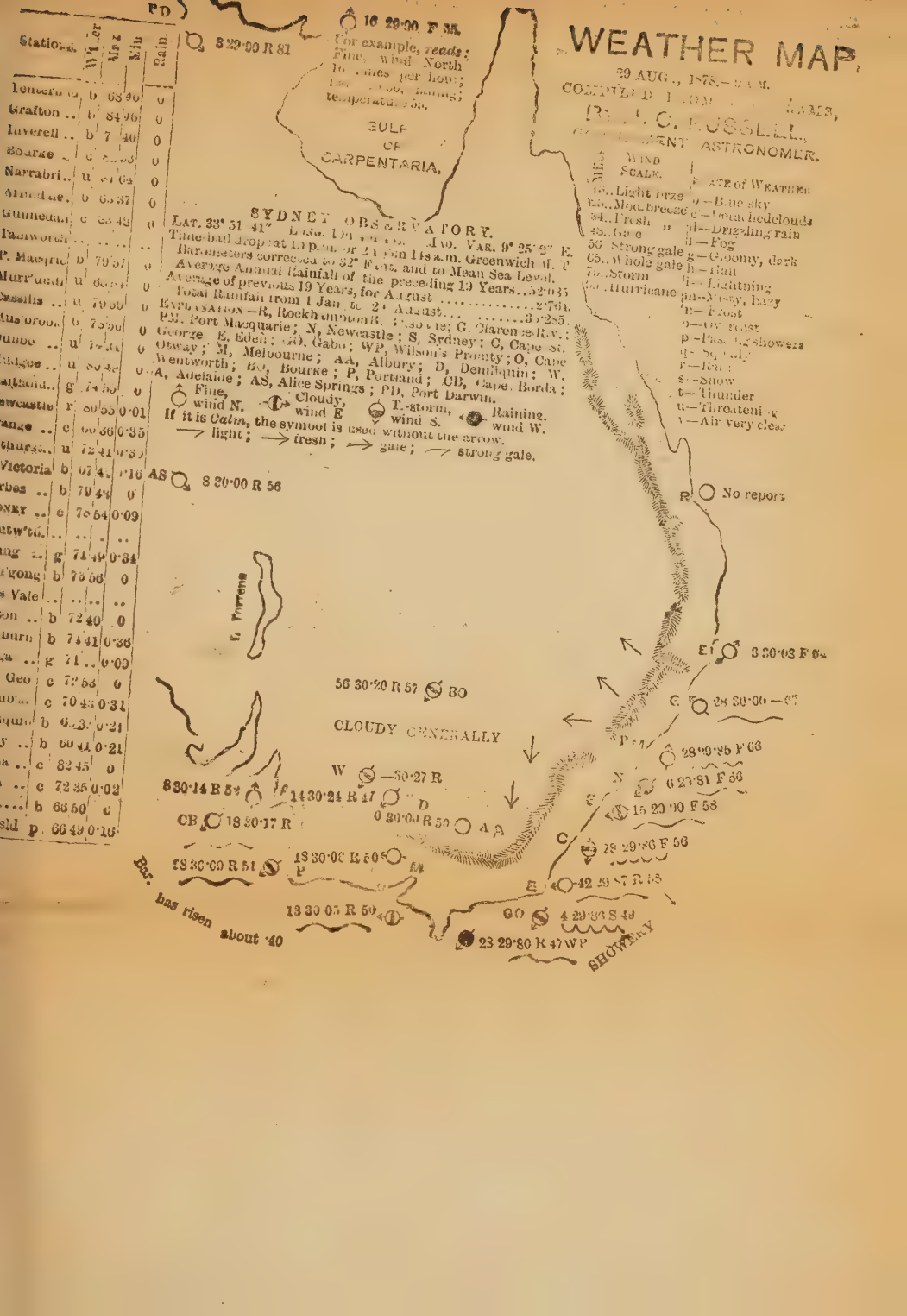
23 29·68 F 55

8 29·63 F 61 WP

Bar. has fallen about ·50

RAINING

SMOOTH SEA


WEATHER MAP.
29 AUG., 1878.
GULF OF CARPENTARIA.
SYDNEY OBSERVATORY.
LAT. 33° 51' 41"
Time-ball dropped 1 p.m. or 21h 0m 1ts a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035
Total Rainfall from 1 Jan. to 29 August.....2·761
Evaporation—R, Rockhampton; B, Bourke; G, Clarence River; P.M., Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.
Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is Calm, the symbol is used without the arrow.
light; fresh; gale; strong gale.
WIND SCALE.
Light breeze
Mod. breeze
Fresh
Gale
Strong gale
Whole gale
Storm
Hurricane
Blue sky
Fog
Gloomy, dark
Rain
Lightning
Hazy
Frost
Showers
Snow
Thunder
Air very clear
No report
CLOUDY GENERALLY
Bar. has risen about ·40
SHOWERY

WEATHER MAP.

2 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 31 August.....3[illegible]

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promontory; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	p	75	45	0·02
Grafton	u	77	49	0·41
Inverell	u	61	57	0·20
Bourke	c	75	55	0
Narra[illegible]	.	..	..	.
Armidale	u	62	8	0·03
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	b	58	48	0·01
Marr'undi	u	58	43	0
Cassilis	b	65	39	0
Mus'brook	b	65	46	0·01
Dubbo	b	62	44	0
Mudgee	b	68	41	0
Maitland	b	63	45	0
Newcastle	b	70	49	0
Orange	u	60	35	0
Bathurst	n	63	34	0
Mt Victoria	b	60	36	0
Forbes	b	75	42	0
Blacktown	b	66	38	0
Ea				
SYDNEY	c	63	48	0
Wentw'th	..	..	..	.
Young	b	64	42	0
Woll'gong	..	..	..	..
Moss Vale	..	..	..	..
Euston	..	..	..	..
Goulburn	b	67	33	0
Wagga	b	69	.	0
Cape Geo.	b	69	48	0
Queanb'an	b	63	34	0
Deniliquin	b	75	41	..
Albury	b	70	38	0
Bodalla	b	73	35	0
Cooma	n	68	23	0
Eden	b	60	44	0
Gabo Isld.	b	68	49	0

WEATHER MAP.

8 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·035.

Total Rainfall from 1 Jan. to 31 August.....30·299

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	Wind	Max	Min	Rain
Townsville	b	70	45	0
Grafton ..	b	..	47	0
Inverell ..	r	66	53	0·85
Bourke ..	u	86	51	0
Narrandera	r	76	56	0·65
Armidale ..	r	61	37	1·40
Gunnedah	r	78	58	0·52
Tamworth	..	..	..	..
P. Macquarie	r	69	50	0·17
Murr'undi	r	66	51	0·28
Cassilis ..	u	72	44	0·17
Mus'brook	r	77	43	0·01
Dubbo ..	u	68	52	0·25
Mudgee ..	r	76	48	0·27
Maitland..	u	69	54	0
Newcastle	u	76	55	0
Orange ..	u	60	45	0
Bathurst..	n	61	39	0·08
MtVictoria	u	61	44	0
Forbes ..	u	73	39	0
Blacktown	c	69	48	0
SYDNEY ..	u	69	53	0·01
Wentw'th.	b	75	43	0
Young ..	..	..	..	..
Woll'gong	c	76	52	0
Moss Vale	..	..	..	..
Euston ..	u	75	42	0
Goulburn.	u	65	38	0
Wagga ..	b	69	.	0
Cape Geo.	b	71	52	0
Queanb'an	b	67	37	0
Deniliquin	b	74	43	0
Albury ..	c	73	37	0
Bodalla ..	b	72	36	0
Cooma ..	n	71	25	0
Eden	b	64	45	0
Gabo Isld.	b	68	50	0

WEATHER MAP.

4 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 4 September..3[illegible]·04.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Meruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Teuteri'ta	u	70	50	0
Grafton ..	b	87	45	0
Inverell ..	f	68	53	0·03
Bourke ..	c	80	61	0·03
Narrari ..	c	70	56	0·40
Armidale ..	u	60	38	0·28
Gunnedah	c	66	50	0·22
Tamworth	..	..	..	..
P. Macqrie	u	69	60	0·10
Murr'undi	c	62	53	0·19
Cassilis ..	b	67	49	0·02
Mus'orook	u	74	51	0·16
Dubbo ..	u	66	56	1·01
Mudgee ..	u	63	51	0·87
Maitland..	u	66	53	0·1[illegible]
Newcastle	u	72	55	0
Orange ..	c	55	47	0.82
Bathurst..	b	54	49	0·7[illegible]
McVictoria	b	58	43	0·25
Forbes ..	b	68	38	0
Blacktown	..	..	..	..
SYDNEY ..	b	61	54	0·21
Wentw'th.	b	78	42	
Young ..	b	51	49	0·10
Wol'gong	..	..	..	
Moss Vale	..	..	..	..
Euston ..	b	79	48	0
Goulburn..	b	57	45	0·0[illegible]
Wagga ..	b	80	.	0
Cape Geo.	b	67	52	0·05
Queanb'an	b	59	43	0
Deniliquin	b	69	38	0
Albury ..	b	71	39	0
Bedala ..	b	73	38	0
Cooma ..	n	60	32	0
Eden	b	70	48	0
Gabo Isld.	u	75	50	0·02

WEATHER MAP.

5 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·035.

Total Rainfall from 1 Jan. to 5 September..35·809.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	r	51	38	0·38
Grafton ..	r	57	63	0·42
Inverell ..	r	71	56	1·35
Bourke ..	u	82	63	1·00
Narrandi ..	r	70	56	0·35
Armidale ..	..	..	..	..
Gunnedah	.	.	..	..
Tamworth	..	..	..	..
P. Macqrie	r	71	59	0·3.
Marr'mandi	r	66	49	0
Cassilis ..	r	70	53	0·76
Mus'brook	r	76	55	0·22
Dubbo ..	r	68	55	0·66
Mudgee ..	p	75	51	0·32
Maitland..	r	71	59	0·30
Newcastle	r	78	59	0.39
Orange ..	r	69	49	0
Bathurst..	r	67	51	0·12
MtVictoria	r	62	45	0
Forbes ..	r	72	37	0
Blacktown	r	72	56	0·20
		Ea		
SYDNEY ..	r	72	58	0·31
Wentw'th.	b	70	40	0
Young ..	u	68	53	0
Woll'gong	c	68	57	0
Moss Vale	..	.	..	.
Euston ..	u	69	43	0
Goulburn.	m	68	50	0
Wagga ..	u	71	.	0
Cape Geo.	r	61	56	0
Queanb'an	u	70	50	0
Deniliquin	u	67	41	0
Albury ..	u	70	38	0
Bodalla ..	r	65	48	0·90
Cooma ..	n	77	36	0
Eden	u	69	49	0
Gabo Isld.	u	63	48	0

WEATHER MAP.

6 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 6 September...38·38 9.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	u	75	40	0·46
Grafton ..	b	78	58	0
Inverell ..	u	65	52	1·75
Bourke ..	b	75	48	0
Narrandera	c	79	53	0·10
Armidale ..	u	61	35	1·30
Gunnedah	u	69	50	0
Tamworth	..	..	..	..
P. Macquarie	b	66	58	0·30
Murr'undi	u	65	50	0·50
Cassilis ..	u	68	49	1·75
Mus'brook	u	64	52	0·57
Dubbo ..	u	66	51	0·61
Mudgee ..	u	58	47	1·50
Maitland..	c	61	56	1·10
Newcastle	b	68	55	0·05
Orange ..	r	52	42	1·10
Bathurst..	u	54	46	0·78
Mt Victoria	p	49	40	1·50
Forbes ..	..	..	..	..
Blacktown	c	59	53	2·21
SYDNEY ..	d	60	45	3·06
Wentw'th.	b	70	35	0
Young ..	u	52	47	1·05
Woll'gong	c	59	54	7·50
Moss Vale	..	..	..	..
Euston ..	b	61	37	0
Goulburn..	u	55	45	1·10
Wagga ..	u	71	..	1·00
Cape Geo.	q	64	46	3·05
Queanb'an	u	54	46	1·75
Deniliquin	b	57	39	0
Albury ..	u	57	45	1·20
Rodalla ..	r	56	48	0·24
Cooma ..	r	49	40	0·61
Eden	r	69	50	0·00
Gabo Isld.	..	..	..	..

WEATHER MAP.

7 SEPT., 1878.—9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·035.

Total Rainfall from 1 Jan. to 7 September..38·876.

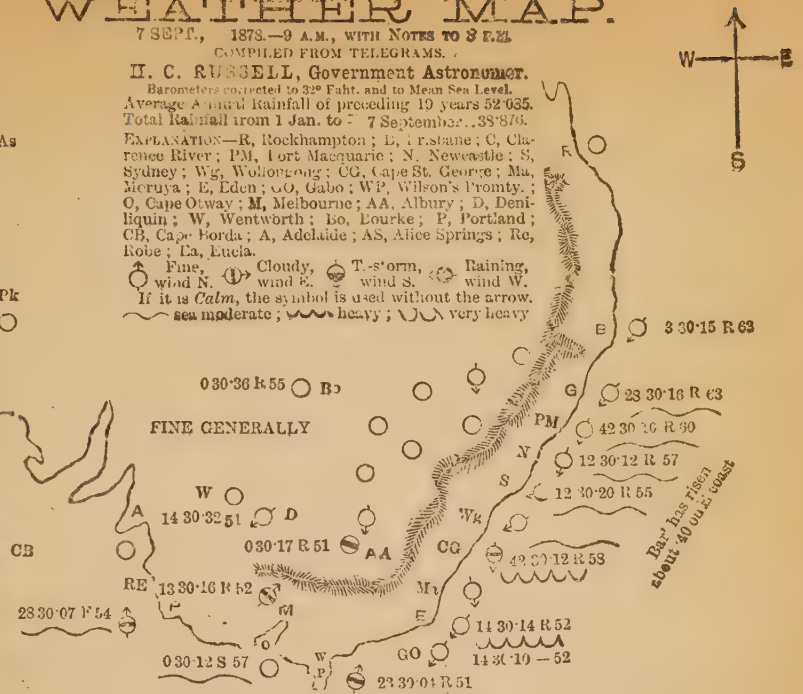
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Rc, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	Weather	Max	Min	Rain
Tenterfield	b	52	35	0
Grafton ..	b	82	49	0
Inverell ..	b	60	41	0
Bourke ..	b	62	44	0
Narrandera..	b	70	46	0
Armidale ..	b	62	28	0
Gunnedah	..	..		..
Tamworth	..	..	..	..
P. Macquarie	b	73	51	0
Murr'undi	u	55	43	0
Cassilis ..	b	55	42	0
Mag'brook	b	66	46	0·01
Dubbo ..	..	..	..	..
Mudgee ..	f	52	42	0·05
Maitland..	b	65	50	0·05
Newcastle	b	68	49	0·01
Orange ..	b	51	39	0·45
Bathurst..	b	52	39	0
MtVictoria	b	50	34	0
Forbes ..	b	62	41	0
Blacktown	..	..	..	..
Sydney ..	b	62	51	0·01
Wentw'th.	..	..	..	..
Young ..	b	51	46	0·05
Wolll'gong	b	60	48	0
Moss Vale	..	..	..	..
Euston ..	b	68	37	0
Goulburn..	b	51	34	0·02
Wagga ..	f	64	.	0
Cape Gco.	c	66	50	1·19
Queanb'an	b	55	36	0
Deniliquin	b	67	37	0
Albury ..	b	64	28	0·02
Bodaila ..	b	77	38	0
Cooma ..	u	49	31	0·00
Eden	b	54	47	0·38
Gabo Isld.	b	50	25	0·25



WEATHER MAP.

9 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·035.

Total Rainfall from 1 Jan. to 9 September..35·379.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River, PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain	
Tenterfield	l.	66	32	0	
Grafton ..	u	83	59	0	
Inverell ..	b	68	44	0	
Bourke ..	c	79	50	0	
Narrandera	b	74	46	0	
Armidale ..	b	64	29	0	As
Gunnedah	..	..	..	..	
Tamworth	..	..	..	..	
P. Macquarie	b	66	49	0	
Murr'undi	b	63	41	0	
Cassilis ..	b	60	47	0	
Mus'brook	b	71	40	0	
Dubbo ..	b	68	45	0	
Mudgee ..	b	78	45	0	
Maitland..	b	66	45	0	
Newcastle	b	70	52	0	Pk
Orange ..	b	61	41	0	
Bathurst..	f	68	35	0	
MtVictoria	b	62	34	0	
Forbes ..	u	63	39	0	
Blacktown	b	70	43	0	
		Ea			
Sydney ..	b	64	50	0	
Wentw'th.	u	82	58	0	
Young ..	b	62	41	0	
Woll'gong	b	64	45	0	
Moss Vale	..	..	..	..	
Euston ..	u	83	63	0	
Goulburn.	u	72	38	0	
Wagga ..	b	71	..	0	
Cape Geo.	b	63	51	0	
Queanb'an	b	68	37	0	
Deniliquin	u	76	45	0	
Albury ..	u	75	40	0	
Bodalla ..	b	72	38	0	
Cooma ..	u	70	34	0·02	
Eden	..	..	..	..	
Gabo Isld.	..	..	..	..	

WEATHER MAP.

10 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·035.

Total Rainfall from 1 Jan. to 10 September..39·054.

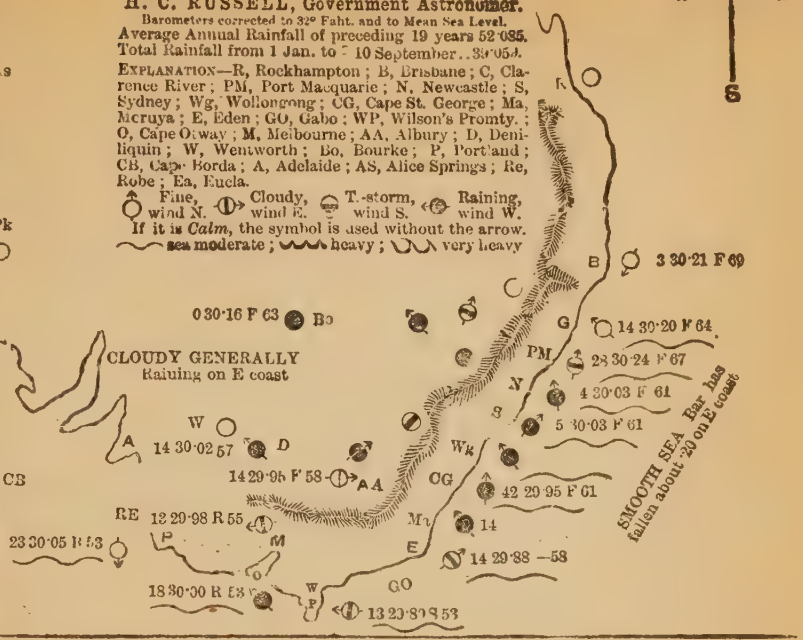
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Rockhampton	b	68	51	0
Grafton	u	82	57	0
Inverell	g	71	52	0
Bourke	r	81	63	2·50
Narrandera	r	55	43	0·51
Armidale	u	65	32	0
Gunnedah	..	..		..
Tamworth	..	..	..	..
P. Macquarie	b	72	59	0
Murr'undi	r	67	49	0·62
Cassilis	r	77	37	0·00
Mus'brook	r	78	51	0·66
Dubbo	..	..	..	..
Mudgee	r	77	53	0·97
Maitland	r	72	56	0·18
Newcastle	r	74	57	0·12
Orange	..	..	..	..
Bathurst	..	..	..	..
Mt Victoria	u	66	51	0
Forbes	..	..	..	..
Blacktown	..	..	..	..
SYDNEY	r	65	56	0·18
Wentw'th	..	..	..	..
Young	..	..	..	..
Woll'gong	r	76	66	2·00
Moss Vale	..	..	..	..
Euston	b	79	59	0
Goulburn	u	71	47	0·25
Wagga	r	72	..	0·50
Cape Geo.	r	65	57	0·35
Queanb'an	r	69	50	0·25
Deniliquin	r	67	41	0·48
Albury	g	73	51	0·04
Bodalla	p	72	45	0·02
Cooma	p	63	40	0·04
Eden	u	63	51	0·05
Gabo Isld.	..	..	..	..



WEATHER MAP.

11 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 11 September..39·366.

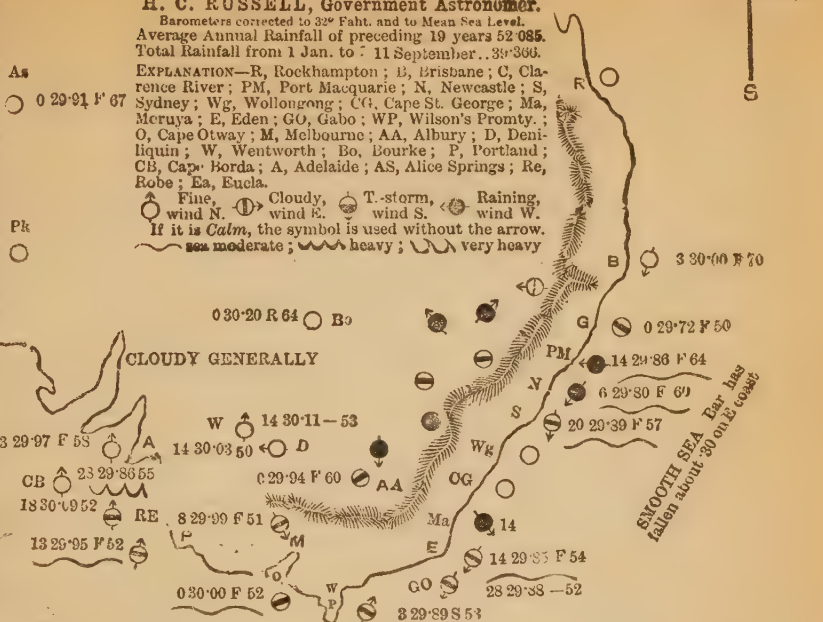
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Centerf'ld	u	68	51	1·30
Grafton ..	c	64	50	0·40
Inverell ..	r	63	55	0·40
Bourke ..	b	62	51	0·25
Tarrabri ..	r	65	46	0·20
Armidale ..	u	64	30	0·10
Gunnedah	u	68	54	0·37
Tamworth	..	..	..	..
P. Macqrie	r	72	63	0·35
Murr'undi	r	65	51	0·55
Cassilis ..	r	68	56	0·28
Mus'brook	r	76	49	0·40
Dubbo ..	u	71	56	0·85
Mudgee ..	u	76	53	0·82
Maitland..	r	71	55	1·17
Newcastle	r	75	57	0·52
Orange ..	c	60	48	1·20
Bathurst..	u	61	51	0·47
Mt Victoria	r	62	46	0·50
Forbes ..	c	72	50	0·20
Blacktown	p	72	56	0·30
		Ea		
SYDNEY ..	u	68	57	0·31
Wentw'th.	b	65	40	0
Young ..	..	..	..	..
Woll'gong	..	..	..	..
Moss Vale	..	..	..	..
Euston ..	c	96	58	0
Goulburn.	u	66	49	0·31
Wagga ..	u	72	..	0
Cape Geo.	..	..	..	..
Queanb'an	p	60	51	0·35
Deniliquin	b	64	38	0
Albury ..	u	68	49	0
Bodalla ..	p	71	51	0
Cooma ..	p	62	45	0·16
Eden	n	63	52	0·27
Gabo Isld.	u	64	53	0·03



ations		Max	Min	Rain
aterhouse	b	68	48	0
ifton ..	b	82	52	0
verell ..	b	64	44	0·22
ourke ..	b	69	55	0
rra ri..	b	72	46	0
mildale ..	b	66	32	0
ernatin	..	..	..	..
nwarth	.	..	..	.
Ma quarie	b	72	53	0·17
arrundi	b	61	43	0·24
essilis ..	b	67	42	0·05
s'brook	b	7.	46	0·03
ubbo ..	b	67	47	0
udgee ..	b	75	46	0
itland	b	65	54	0·2.
ewcastle	b	63	53	0·2.
ange ..	b	66	59	0
thorst..	b	62	41	0
Victoria	b	58	59	0
orbes ..	b	68	51	0
acktown	u	67	49	0·01
0 29·77 F00		Ea		
DNEY ..	b	62	51	[illegible]
entw'th.	b	77	50	0
ang ..	b	67	43	0
o'l'gong	b	62	52	0
ps Vale	..	..	..	.
ysten ..	b	7.	5	0
oulburn.	b	64	39	0
agga ..	b	76	.	0
ape Geo.	b	59	50	0
eenb'ean	b	65	41	0·07
uiliquin	b	67	38	0
bury ..	b	68	40	0
alla ..	b	67	46	0·5.
oma ..	b	65	35	0·16
den	b	62	50	0
abo Isld.	b	60	50	0·00

WEATHER MAP.

12 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

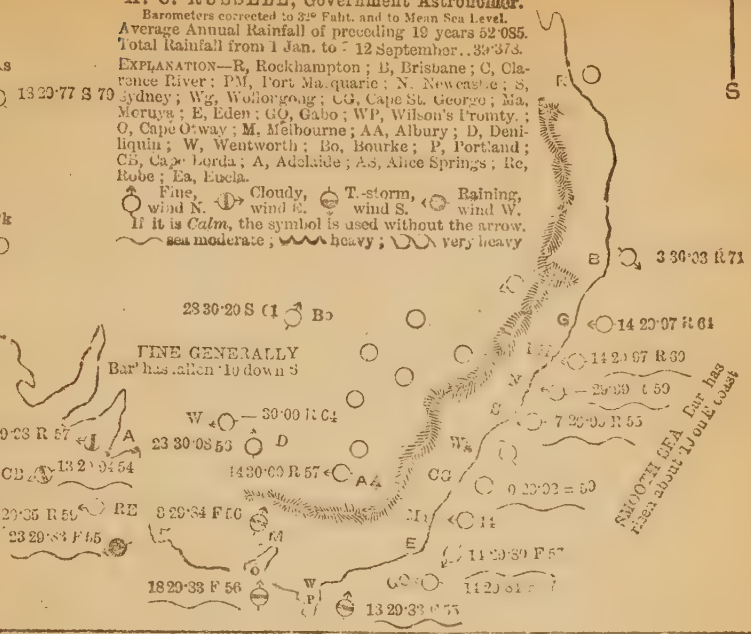
Total Rainfall from 1 Jan. to 12 September..39·373.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; As, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



WEATHER MAP.

13 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 13 September..30·500.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Euela.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

ations	W'th'r	Max	Min	Rain
nteri'lia	b	64	38	0
afton ..	b	85	52	0
verell ..	b	64	43	0
urke ..	c	76	58	0
arrabri ..	u	75	46	0
nidale .	c	65	39	0
nmedah	..	..	..	..
nworth	..	..	..	..
Macqrie	g	69	51	0
rr'undi	u	63	45	0
ssilis ..	u	71	41	0
s'brook	r	73	53	0
bbo ..	p	66	53	0·25
ndgee ..	g	76	50	0
tland..	r	68	53	0
ewcastle	r	74	52	0·10
ange ..	u	66	42	0·20
thurst..	u	65	49	0·06
Victoria	u	60	45	0
rbes ..	g	73	51	0·20
acktown	p	71	50	0·21
		Ea		
DNEY ..	r	69	55	0·13
entw'th.	..	..	..	..
ong ..	g	66	55	0·14
oll'gong	r	64	53	0
oss Vale	..	.	.	.
iston ..	b	74	42	0·12
ulburn..	u	65	49	0·23
agga ..	b	70	.	0·19
ape Geo.	b	64	54	0
eaub'an	c	60	38	0
eniliquin	b	71	37	0·10
bury ..	u	68	44	0·24
oda'la ..	c	68	51	0
boma ..	b	70	43	0
den	b	61	49	0
abo Isld.	b	66	53	0

WEATHER MAP.

14 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

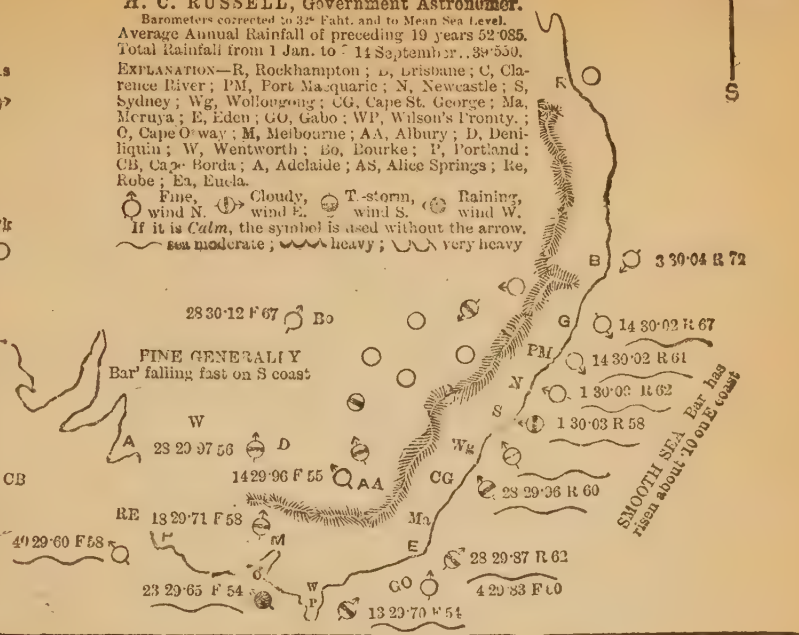
Total Rainfall from 1 Jan. to 14 September..39·550.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; C, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



ations	Wth'r	Max	Min	Rain
...ckhmptn	b	68	39	0
...ifton ..	b	84	55	0
...rell ..	c	66	54	0
...cke ..	b	72	54	0
...rs ...	b	70	51	0
...ndale ..	b	66	31	0
...ndah	..	..	..	..
...ewarth	..	..	..	..
...lgaria	b	70	52	0
...rundi	b	68	55	0
...nis ..	f	77	41	0
...s'brook	..	..	..	..
...bbo ..	b	66	40	0
...dgee ..	f	68	46	0
...itland..	b	67	56	0
...wcastle	b	75	52	0
...nge ..	b	62	42	0
...thurst..	f	64	42	0
Victoria	b	60	40	0·09
...rbes ..	b	69	53	0
...cktown	u	70	15	0·02
	67	Ea		
...DNEY ..	f	66	45	0·04
...ntw'th.	..	..	..	..
...ung ..	g	64	46	0
...ll'gong	c	68	54	0
...ss Vale	..	..	..	..
...aton ..	c	74	52	0
...ulburn.	b	66	43	0
...agga ..	b	70	.	0
...pe Geo.	b	64	52	0
...ica. b'an	..	69	44	0
...niliquin	b	70	43	0
...bury ..	b	71	39	0
...dalla ..	..	..	..	..
...onia ..	b	70	34	0
...len	b	66	53	0
...tho Isld.	m	64	53	0

WEATHER MAP.

16 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

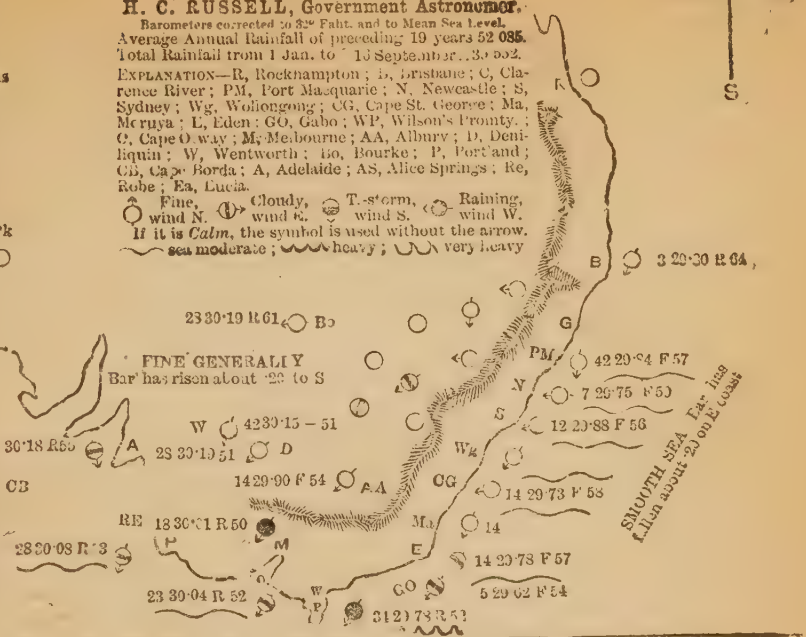
Total Rainfall from 1 Jan. to 16 September...30·552.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; G, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Lucia.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



tions	W'th'r	Max	Min	Rain	
...ersf'ld	b	72	38	0	
...ilton ..	..	..	..	..	
...erell ..	b	72	41	0·02	
...rke ..	b	83	49	0	
...ne ..	b	82	43	0	
...ilbee ..	b	68	35	0	As
...ichan	..	..	..	..	
...aw ...rch	..	..	..	..	
...lacquarie	b	73	51	0·12	
...rr'undi	b	73	43	0	
...ilis ..	b	69	38	0	
...s'brook	b	75	40	0	
...bo ..	b	70	49	0	
...dgee ..	n	77	40	0	
...itland..	b	71	47	0	
...wcastle	b	75	48	0	Pk
...nge ..	c	54	38	0·02	
...thurst..	u	67	56	0	
Victoria	b	63	35	0	
...rbes ..	b	69	48	0	
...cktown	b	70	42	0	
		Ea			
...DNEY ..	b	69	50	0	
...entw'th.	b	73	41	0	
...ung ..	u	65	44	0·18	
...ll'gong	b	64	57	0	
...ss Vale	..	..	..	..	
...ston ..	b	68	45	0	
...elburn.	u	56	39	0	
...gga ..	u	75	.	0·15	
...pe Geo.	b	65	36	0	
...eanb'an	b	67	40	0·40	
...uiliquin	b	73	39	0	
...bury ..	b	73	42	0·30	
...dalla ..	u	72	41	0	
...oma ..	b	68	26	0·62	
...ien	b	68	50	0	
...bo Isld.	m	66	51	0	

ions	W'th'r	Max	Min.	Rain
...erfd	b	72	57	0
...ton ..	u	82	57	0
...rell ..	b	01	40	0
...rke ..	b	09	43	0
...ri ..	b	09	45	0
...de ..	b	08	29	0
...nedan	b	77	46	0
...worth	..	..	..	..
...aerie	q	06	54	0·0
...rhundi	b	08	45	0
...ilis ..	b	08	27	0
...'brook	b	74	47	0
...bo ..	b	04	45	0
...gee ..	b	07	40	0
...land..	b	07	51	0
...castle	u	08	52	0
...ge ..	..	..	..	..
...hurst..	b	54	34	0
...ictoria	c	55	35	0·21
...bes ..	b	06	53	0
...ktown	b	08	44	0
23 20·02 C2		Ea		
...NEY ..	b	04	49	0·00
...stw'th.	b	72	39	0
...ng ..	b	58	41	0
...P'gong	b	61	57	0
...s Vale	..	..	..	..
...ton ..	b	09	42	0
...ilburn..	p	02	34	0·25
...ga ..	b	70	..	0
...e Geo..	b	06	50	0·08
...rbian	b	02	30	0·08
...illaquin	b	07	36	0
...ary ..	b	06	55	0
...alla ..	b	71	25	0·02
...oma ..	c	61	24	0
...n	u	67	51	0
...o Isld.	m	59	52	0·08

WEATHER MAP.

17 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 17 September...30·612.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

WEATHER MAP.

13 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 10 years 52·035.

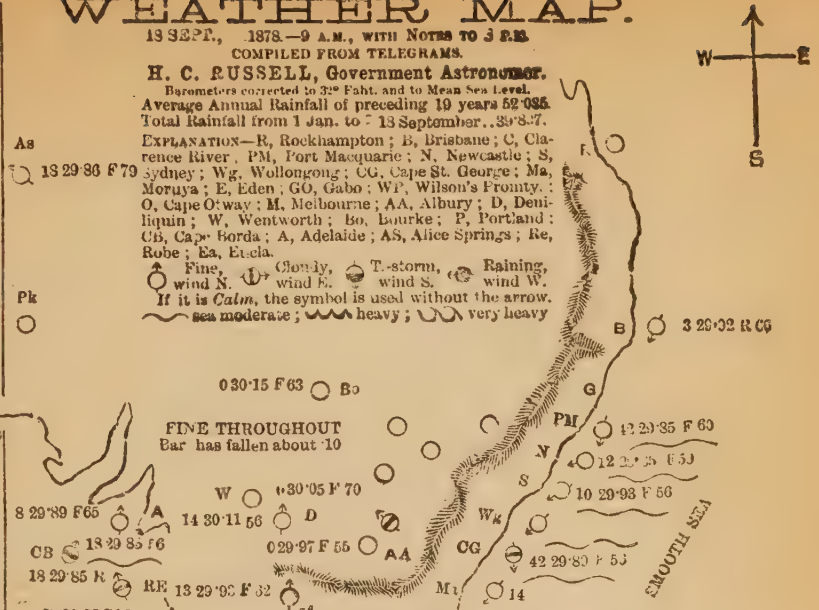
Total Rainfall from 1 Jan. to 13 September..39·837.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River, PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



Stations	W'th'r	Max	Min	Rain
Waterfl'd	..	..	..	..
Grafton	..	..	..	..
Inverell	b	65	38	0
Bourke	b	77	51	0
Narrabri	b	76	44	0
Armidale	..	..	..	..
Tunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	b	66	30	0
Murr'undi	b	71	42	0
Bassilis	b	67	28	0
Mus'brook	b	77	44	0
Dubbo	b	62	41	0
Rudgee	b	70	41	0
Maitland	b	66	51	0
Newcastle	b	68	49	0·08
Orange	b	57	35	0
Bathurst	b	62	35	0
Mt Victoria	b	54	35	0
Forbes	b	69	42	0
Blacktown	..	..	..	..
SYDNEY	b	68	50	0·20
Ventw'th.	b	77	44	0
Young	b	64	43	0
Woll'gong	b	62	50	0
Moss Vale	..	..	..	..
Euston	c	78	46	0
Goulburn	b	59	33	0
Wagga	b	75	.	0
Cape Geo.	c	62	52	0
Queanb'an	b	63	37	0
Deniliquin	b	74	39	0
Albury	b	50	33	0
Bodalla	b	57	48	0
Cooma	c	62	30	0
Eden	b	63	46	0·02
Gabo Isld.	b	58	48	0

ations	W'th'r	Max	Min.	Rain
nterd'la	b	64	39	0
afton ..	..	..	..	..
verell ..	b	66	37	0
urke ..	b	74	53	0
erra ri..	b	69	46	0
midale .	..	..	..	..
nmedain	..	..	..	..
mworth	..	..	..	..
Masqrie	b	72	47	0
urr'undi	b	65	43	0
ssilis ..	b	70	39	0
s'brook	b	75	46	0
ibbo ..	b	68	48	0
udgee ..	b	76	..	0
aitland..	b	71	47	0
ewcastle	b	74	49	0
range ..	b	60	40	0
thurst..	b	64	36	0
tVictoria	b	61	42	0
orbes ..	b	71	58	0
acktown	b	71	51	0
3 29·35 68 Ea				
YDNEY ..	b	64	48	0
entw'th.	.	..	..	..
ong ..	b	68	44	0
ol'gong	b	63	50	0
oss Vale	..	..	..	..
uston ..	c	63	54	0
oulburn.	b	66	38	0
agga ..	b	75	..	0
ape Geo.	b	63	47	0
ncanb'an	b	69	41	0
enilliquin	b	79	47	0
ibury ..	b	72	42	0
odalla ..	b	72	55	0
ooma ..	..	..	..	..
den	b	66	47	0
abo Isld.	..	..	..	..

WEATHER MAP.

19 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

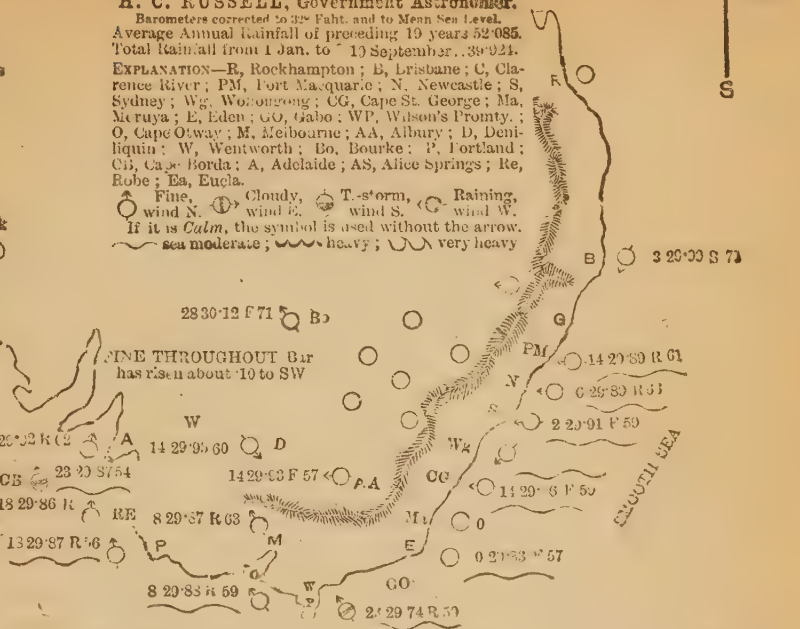
Total Rainfall from 1 Jan. to 19 September..39·024.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



WEATHER MAP.

20 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 20 September..39·026.

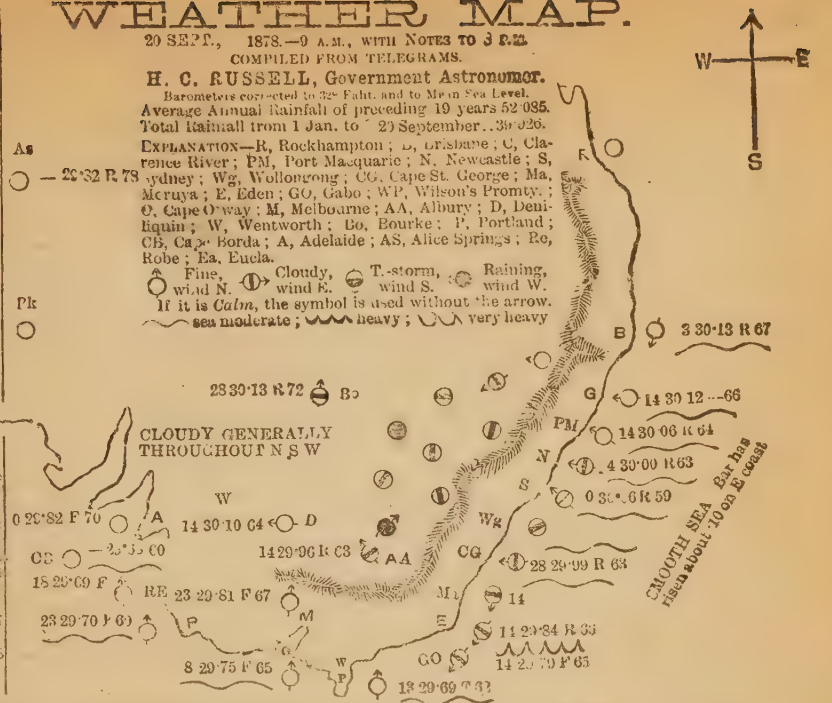
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'thr	Max	Min	Rain
Tenterfield	b	72	40	0
Grafton ..	l	87	55	0
Inverell ..	b	71	45	0
Bourke ..	c	91	63	0
Narrandera ..	u	85	49	0
Armidale ..	b	66	41	0
Gunnedah	u	84	73	0
Tamworth	..	..	..	..
P. Macquarie	m	75	54	0
Marr'undi	u	70	53	0
Cassilis ..	u	80	42	0
Mus'brook	u	50	49	0
Dubbo ..	u	72	57	0
Mudgee ..	u	84	..	0
Maitland..	u	74	57	0
Newcastle	u	79	57	0
Orange ..	..	..	..	..
Bathurst..	u	74	48	0
Mt Victoria	u	67	52	0
Forbes ..	r	69	49	0
Blacktown	c	76	50	0
Sydney ..	u	72	56	0
Wentw'th.	.	..	..	..
Young ..	u	79	59	0·18
Woll'gong	c	69	58	0
Moss Vale	..	..	..	.
Euston ..	p	81	52	0·01
Goulburn.	u	74	51	0
Wagga ..	r	77	.	0·34
Cape Geo.	c	72	58	0·04
Queanb'an	u	71	48	0·11
Deniliquin	b	71	51	0
Albury ..	c	76	49	0·27
Bodalla ..	u	76	44	0
Cooma ..	r	76	44	0·05
Eden	u	68	50	0
Gabo Isld.	u	73	52	0



WEATHER MAP.

21 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

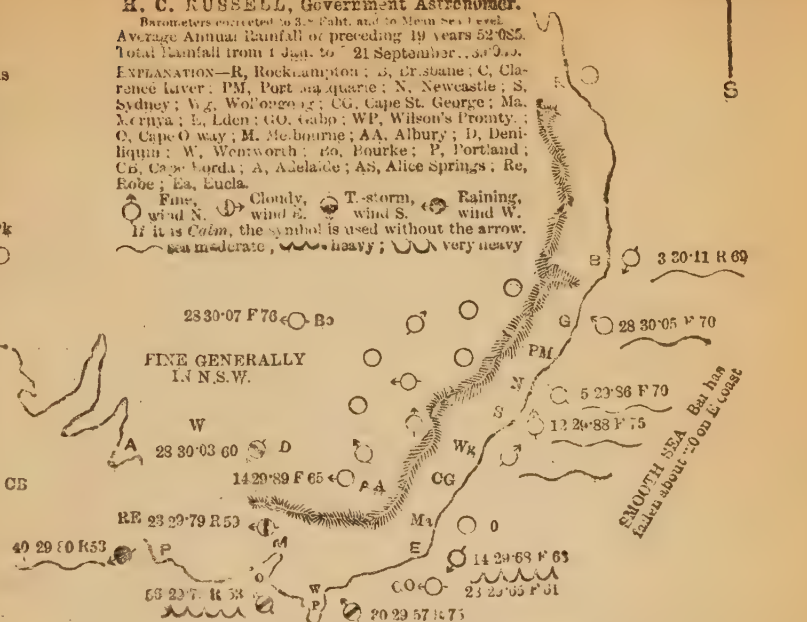
Total Rainfall from 1 Jan. to 21 September...30·0..

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; L, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate, heavy; very heavy



Stations	W'ther	Max	Min	Rain
Tenterfield	b	77	45	0
Grafton	l	87	56	0
Inverell	b	76	49	0
Bourke	b	92	57	0
Narrabri	b	74	44	0
Armidale	b	64	41	0
Gunnedah	..	..	..	.
Tamworth	..	..	..	..
P. Macquarie	..		..	.
Murrumbidgee	b	72	51	0
Cassilis	b	8.	40	0
Muswellbrook	b	77	45	0
Dubbo	b	77	55	0
Mudgee	b	79	.	0
Maitland	b	74	53	0
Newcastle	b	75	56	0
Orange	..	..	..	..
Bathurst	b	74	48	0
Mt Victoria	b	69	54	0
Forbes	b	74	57	0
Blacktown	..	..	..	..
		La		
Sydney	b	77	58	0·3
Wentw'th	.	..	..	..
Young	b	6	52	0·24
Wol'gong	b	67	59	0
Moss Vale	..	..	..	.
Euston	b	69	52	0
Goulburn	b	69	51	0·12
Wagga	b	75	.	0
Cape Geo.	..	..	..	..
Queanbeyan	b	68	46	0·21
Deniliquin	c	84	50	0
Albury	b	80	49	0
Bodalla	b	80	49	0
Cooma	b	69	44	0
Eden	b	75	53	0
Gabo Isld.	m	84	56	0

WEATHER MAP.

23 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 22 September..39·955.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfld	b	78	50	0
Grafton ..	b	92	59	0
Inverell ..	b	79	50	0
Bourke ..	b	82	56	0
Narrabri ..	b	90	50	0
Armidale .	u	73	41	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	m	74	61	0
Murr'undi	u	79	46	0
Cassilis ..	c	89	43	0
Mus'brook	u	77	48	0
Dubbo ..	b	78	51	0
Mudgee ..	b	81	..	0
Maitland..	u	83	55	0
Newcastle	b	75	59	0
Orange ..	b	67	42	0
Bathurst..	b	78	39	0
Mt Victoria	u	75	36	0
Forbes ..	b	76	55	0
Blacktown	c	73	48	0
SYDNEY ..	b	66	54	0
Wentw'th.	b	76	39	0
Young ..	b	69	45	0
Woll'gong	b	8[illegible]	54	0
Moss Vale	u	64	46	0
Euston ..	u	86	39	0
Goulburn.	u	72	44	0
Wagga ..	b	77	.	0
Cape G'o.	b	66	51	0
Queanb'an	u	78	40	0
Deniliquin	u	72	36	0
Albury ..	u	76	55	0
Bodalla ..	u	71	43	0
Cooma ..	u	70	43	0
Eden	b	75	39	0
Gabo Isld.	m	68	51	0

WEATHER MAP.

24 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 24 September..39·956.

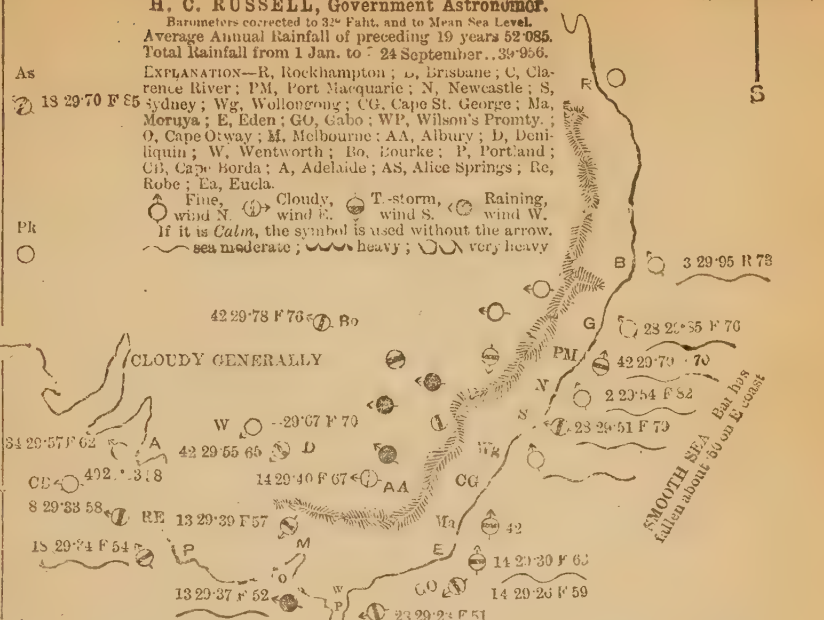
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Rockhampton	b	70	50	0
Grafton ..	b	95	62	0
Inverell ..	b	79	49	0
Bourke ..	c	94	74	0
Narrandera ..	q	90	61	0
Armidale ..	b	72	52	0
Clarence.Iain	u	90	53	0
Tamworth	..	..	..	..
P. Macquarie	u	76	62	0
Murr'undi	t	76	55	0
Cassilis ..	u	84	59	0
Mas'brook	h	87	58	0
Dubbo ..	u	79	53	0
Mudgee ..	u	81	..	0
Maitland..	b	79	57	0
Newcastle	b	8[illegible]	60	0
Orange ..	u	57	50	0
Bathurst..	r	73	48	0
MtVictoria	u	68	53	0
Forbes ..	u	79	61	0
Blacktown	q	78	59	0
Ea				
SYDNEY ..	u	8[illegible]	60	0
Wentw'th.	b	88	52	0
Young ..	r	7[illegible]	49	0·03
Woll'gong	b	76	61	0
Moss Vale	p	69	54	0
Luston ..	b	84	61	0
Goulburn..	r	74	53	0
Waggy ..	b	79	..	0·05
Cape Geo.	..	..	..	..
Queanb'an	c	72	48	0·37
Deniliquin	u	8[illegible]	58	0
Albury ..	c	77	50	0
Bodalla ..	q	72	54	0
Cooma ..	p	67	51	0·[illegible]
Eden	b	76	54	0
Gabo Isld.	m	79	56	0·05



WEATHER MAP.

25 SEPT., 1878.—9 A.M., WITH NOTES TO 5 P.M.

COMPILED FROM TELEGRAMS

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

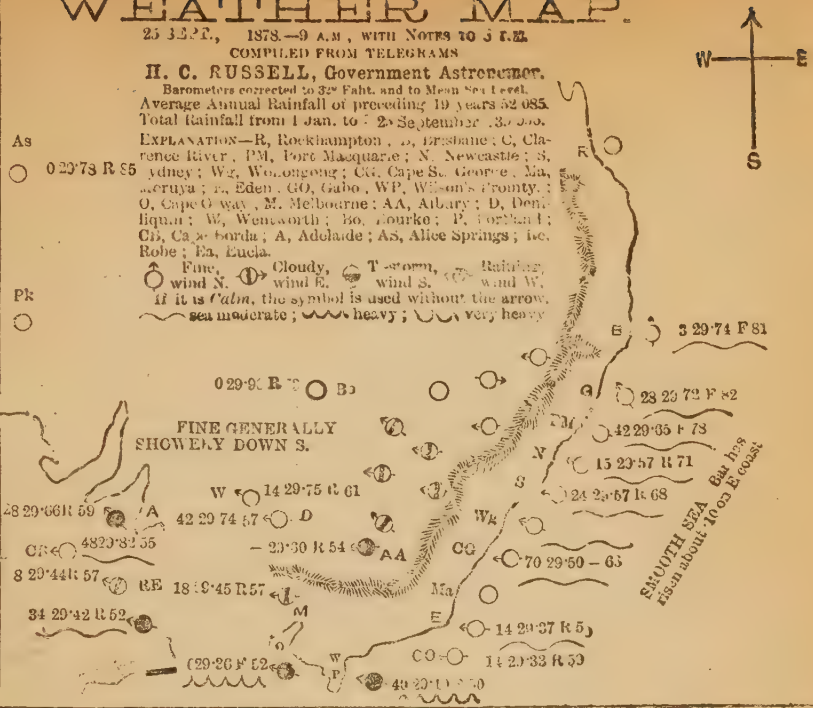
Total Rainfall from 1 Jan. to 25 September 35·500.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promontory; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Ba, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	Weath.	Max	Min	Rain
Centerf'ld	b	80	50	0
Grafton ..	b	93	58	0
Inverell ..	b	82	61	0
Bourke ..	b	97	64	0
Narran ..	b	89	59	0
Armidale .	..	..	..	..
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	m	78	51	0
Murr'undi	b	76	59	0
Cassilis ..	b	89	60	0
Mus'brook	b	93	65	0
Dubbo ..	b	83	60	0
Mudgee ..	b	80	..	0·05
Maitland..	b	86	65	0·03
Newcastle	b	93	54	0
Orange ..	c	70	48	0·03
Bathurst..	u	72	50	0·05
MtVictoria	b	65	45	0
Forbes ..	u	78	58	0
Blacktown	b	84	57	0
SYDNEY ..	b	83	61	0
Wentw'th.	b	80	49	0
Young ..	u	74	54	0·06
Woll'gong	b	78	53	0
Moss Vale	c	70	50	0·1.
Euston ..	u	80	50	0·05
Goulburn.	p	72	47	0·48
Wagga ..	p	80	0	1.
Cape Geo.	b	75	56	0·22
Queanb'an	c	71	47	0·23
Deniliquin	u	78	48	0·0.
Albury ..	p	73	47	0·12
Bodalla ..	..	82	45	0·51
Cooma ..	q	68	41	0·21
Eden	b	79	52	0·13
Gabo Isld.	b	61	51	0·30

WEATHER MAP.

23 SEPT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 23 September ..39·[illegible].

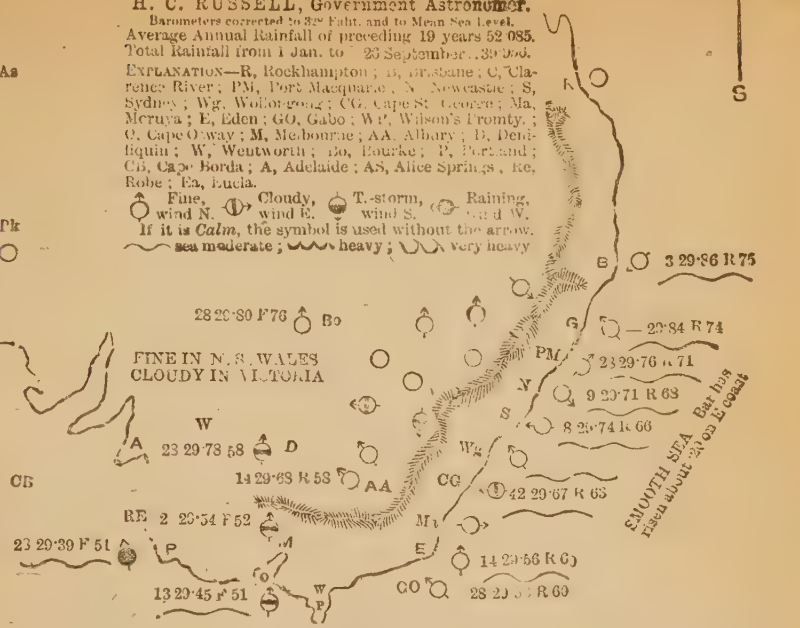
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; C, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	b	79	35	0
Grafton ..	b	77	59	0
Inverell ..	b	79	47	0
Bourke ..	b	87	05	0
Narrandera ..	b	84	51	0
Armidale ..	b	79	31	0
Gulgongan	.	..	..	..
Tamworth	..	..	..	..
P. Macqrie	m	86	58	0
Murr'undi	c	74	52	0
Cassilis ..	b	79	52	0
Mus'brook	b	82	57	0
Dubbo ..	b	75	56	0
Mudgee ..	b	73	..	0
Maitland..	b	77	55	0
Newcastle	b	79	58	0
Orange ..	b	58	48	0
Bathurst..	b	66	49	0
Mt Victoria	b	64	45	0
Forbes ..	b	75	61	0
Blacktown .		..	..	..
		Ea		
SYDNEY ..	b	74	60	0
Wentw'th.	..	..	..	..
Young ..	u	66	55	0·23
Woll'gong	b	73	58	0
Moss Vale	u	62	47	0·30
Euston ..	b	75	47	0
Goulburn.	p	63	40	0·55
Wagga ..	..	..	..	..
Cape Geo.	b	70	53	0
Queanb'an	c	61	42	0·24
Deniliquin	b	68	39	0·23
Albury ..	b	64	40	0·36
Bo[illegible]ia ..	h	76	28	0·52
Cooma ..	b	62	38	0·15
Eden	b	75	47	0
Gabo Isld.	b	70	49	0·18



WEATHER MAP.

27 3.2 P.T. 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

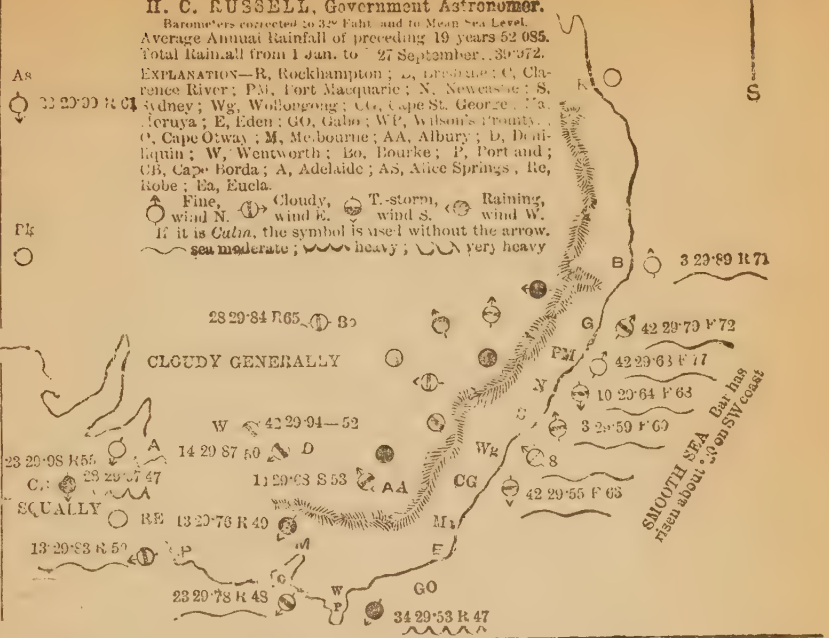
Total Rainfall from 1 Jan. to 27 September..30·972.

EXPLANATION—R, Rockhampton; L, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ta, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promontory; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



Stations	Weather	Max	Min	Rain
Tenterfield	u	85	55	5
Grafton	u	101	[illegible]	[illegible]
Inverell	u	87	65	0
Bourke	c	93	59	0
Narrabri	d	93	71	0
Armidale	u	84	39	0·02
Gunnedah	.	..	..	..
Tamworth	..	..	..	..
P. Macquarie	m	78	68	0
Murrumbidgee	u	82	61	0·[illegible]
Cassilis	u	90	5[illegible]	0·[illegible]
Muswellbrook	c	[illegible]	[illegible]	0·09
Dubbo	u	80	60	0
Mudgee	r	86	..	0
Maitland	u	77	64	0
Newcastle	[illegible]	7[illegible]	[illegible]	0
Orange	u	70	38	0
Bathurst	u	76	46	0
Mt Victoria	u	73	47	0
Forbes	u	73	58	0
Blackstone	c	79	49	0
SYDNEY	u	[illegible]	[illegible]	0·02
Wentw'th.	b	76	6[illegible]	0
Young	u	67	53	0·5
Woll'gong	u	72	56	0
Moss Vale	r	67	47	0
Euston	u	75	43	0
Goulburn	c	67	48	0·[illegible]
Wagga	u	80	[illegible]	0
Cape Ge[illegible]	u	78	52	0
Queanbeyan	u	64	48	0
Deniliquin	u	75	40	0
Albury	u	72	39	0·12
Bolaala	..	77	41	0
Cooma	p	73	54	0·23
Eden	..	..	..	..
Gabo Isld.	..	..	..	..

WEATHER MAP.

23 SEPT. 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 28 September..41·157.

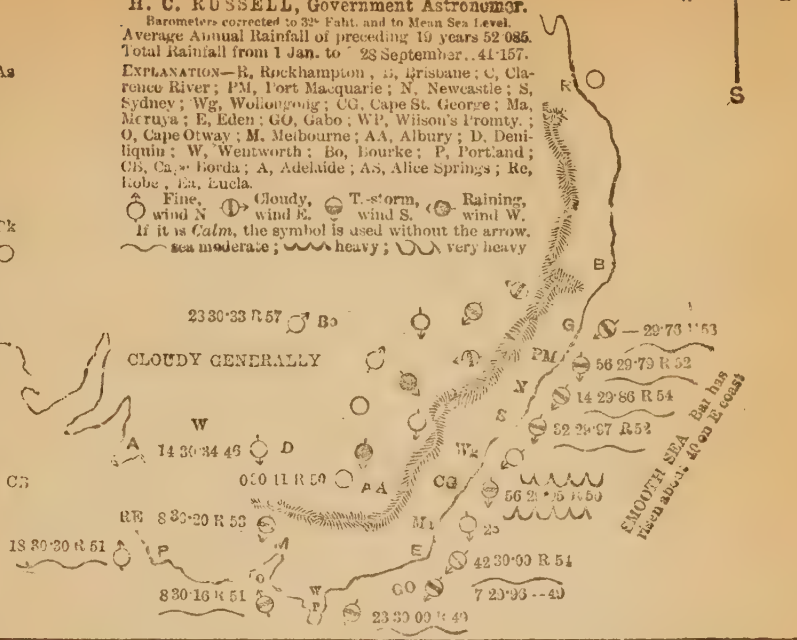
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Eu, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Cantertn'n	u	65	35	0
Grafton	u	85	52	0·70
Inverell	u	71	45	0·81
Bourke	b	74	49	0
Narrandera	b	81	43	0
Armidale	u	77	38	1·02
Tamworth				
P. Macqrie	q	80	50	1·30
Murr'undi	u	75	41	1·15
Cassilis	b	68	45	0
Mus'brook	u	76	48	0·42
Dubbo	c	65	40	0·15
Mudgee	u	66		0·05
Maitland				
Newcastle	q	75	48	1·15
Orange	p	56	35	0·15
Bathurst	u	57	39	0·24
Mt Victoria	c	64	52	0
Forbes	b	69	51	0
Blacktown				
SYDNEY	b	65	50	1·13
Wentw'th				
Young	b	65	41	0·16
Woll'gong	b	66	49	1·00
Moss Vale	u	56	38	0·05
Euston	b	67	50	0
Goulburn	b	58	37	0·32
Wagga	b	[illegible]		0
Cape Geo	c	66	46	0·52
Queanb'an	b	58	32	0·32
Deniliquin	b	68	36	0
Albury	b	72	50	0
Bodalla	b	62	48	1·01
Cooma	p	48	32	0·05
Eden	b	61	49	0
Gabo Isld.	p	56	44	0·37



WEATHER MAP.

30 SEPT. 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 30 September..41·255.

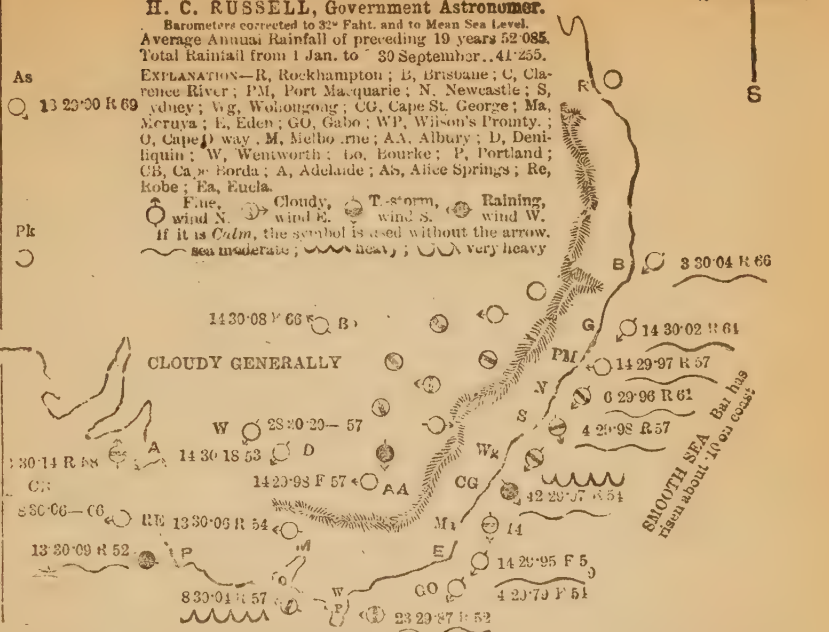
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Howay; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; As, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Centerfield	b	60	33	0·06
Grafton	n	80	35	0
Inverell	b	63	35	0
Bourke	b	73	47	0
Narrandera	c	76	44	0
Armidale	c	67	38	0
Hannedah	.	.	..	..
Tamworth	..	..	..	..
P. Macqrie	b	68	45	0
Murr'umdi	u	62	42	0
Cassilis	b	79	42	0
Hus'brook	b	72	37	0
Dubbo	u	66	42	0
Mudgee	u	70	.	0
Maitland	.	.	..	..
Newcastle	c	74	52	0
Orange	u	53	39	0
Bathurst	u	62	30	0
Mt Victoria	b	58	30	0
Forbes	u	68	53	0
Blacktown	c	69	37	0
Ea				
SYDNEY	u	67	44	0·10
Wentw'th.	b	75	51	0
Young	u	60	50	0
Woll'gong	c	67	48	0
Moss Vale	u	68	47	0·03
Euston	b	76	45	0
Goulburn	u	61	44	0
Wagga	b	80	..	0
Cape Geo	p	63	52	0
Queanbeyan	b	66	35	0
Deniliquin	b	77	36	0
Albury	b	76	31	0
Bodalla	c	71	49	0
Cooma	p	70	40	0·02
Eden	b	69	50	0
Gabo Isld.	n	65	50	0



WEATHER MAP.

1 OCT., 1878—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 1 October....41·325.

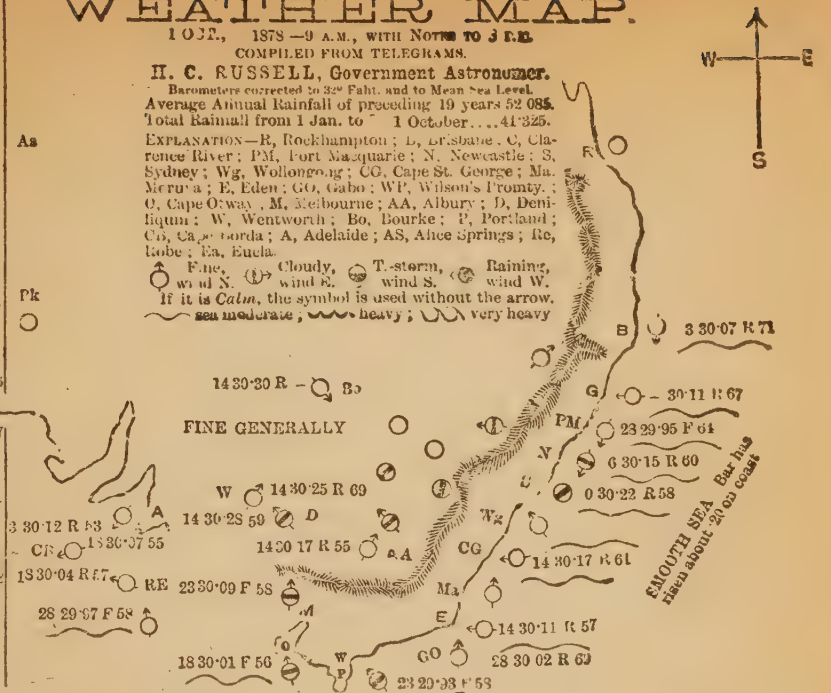
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Centerfield	b	66	35	0
Grafton ..	n	88	56	0
Inverell ..	b	70	41	0
Bourke ..	b	79	48	0
Narrabri ..	b	80	46	0
Armidale ..	b	74	42	0
Gunnedah	b	83	44	0
Tamworth	..	..	..	..
P. Macqrie	b	71	52	0
Murr'umbidi	b	65	40	0
Dassilis ..	b	70	59	0
Hus'brook	c	77	51	0
Dubbo ..	b	69	34	0
Mudgee ..	u	71	..	0
Maitland..	u	..	54	0
Newcastle	u	73	55	0·10
Orange ..	b	54	36	0
Bathurst..	b	60	35	0
Mt Victoria	u	62	41	0
Forbes ..	b	74	48	0
Blacktown	c	63	47	0·06
		Ea		
Sydney ..	u	60	51	0·67
Wentw'th.	b	72	42	0
Young ..	b	64	42	0
Woll'gong	b	61	50	0
Moss Vale	b	66	48	0·50
Euston ..	b	75	50	0
Goulburn.	b	59	40	0
Wagga ..	b	80	..	0
Cape Geo.	b	66	52	0
Queanb'an	c	69	39	0·12
Deniliquin	b	66	38	0
Albury ..	b	70	32	0
Bodalla ..	b	72	38	0
Cooma ..	u	63	33	0
Eden	b	66	46	0
Gabo Isld.	b	61	49	0



WEATHER MAP.

2 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 2 October....41·325.

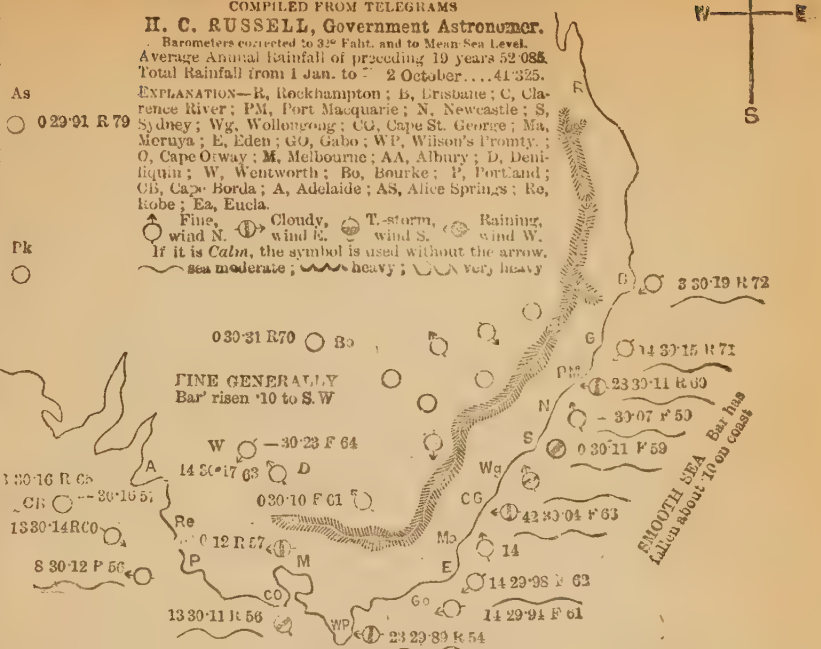
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Meruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy

Stations	Weather	Max	Min	Rain
Esperance	b	69	42	0
Raffor ..	b	82	54	0
Averell ..	b	73	45	0
Burke ..	b	82	51	0
Carnarvon ..	b	87	47	0
Armidale ..	u	68	39	0
Armidale ..	b	87	43	0
Armsworth	..	..	..	..
Port Macquarie	u	69	51	0
Murrumbidgee	b	67	43	0
Bassilis ..	b	74	39	0
Bassbrook	b	76	44	0
Bobo ..	b	71	9	0
Budgee ..	b	81	..	0
Caitiaud..	b		50	0
Newcastle	b	73	51	0
Range ..	b	66	42	0
Bathurst..	b	70	40	0
Port Victoria	b	64	34	0
Forbes ..	b	78	55	0
Blacktown ..	b	70	46	0
SYDNEY ..	c	65	52	0
Wentw'th.	b	83	52	0
Young ..	..	..	..	..
Woll'gong	c	65	52	0
Moss Vale	b	62	45	0
Euston ..	b	85	55	0
Goulburn.	b	74	41	0
Wagga ..	b	80	..	0
Cape Grey.	b	66	52	0
Queanbeyan	b	66	41	0
Deniliquin	b	76	46	0
Albury ..	m	72	41	0
Holbrook ..	b	72	48	0
Tooma ..	b	66	40	0
Eden	b	67	46	0
Gabo Isld.	b	64	43	0



WEATHER MAP.

3 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.
Total Rainfall from 1 Jan. to 3 October....41·325.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Ro, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
sea moderate; heavy; very heavy

ations	W'th'r	Max	Min	Rain
enterf'ld	b	75	35	0
rafton ..	b	90	54	0
iverell ..	b	75	44	0
ourke ..	b	83	55	0
arra ri..	b	89	49	0
rmidale .	b	79	38	0
unnedah	b	92	43	0
anworth	..	..	..	..
. Macqrie	b	73	52	0
urt'undi	b	70	46	0
assilis ..	b	81	41	0
us'brook	b	84	48	0
ubbo ..	b	75	51	0
udgee ..	b	83	..	0
aitland..	b	..	54	0
ewcastle	b	74	50	0
range ..	..	..	..	..
athurst..	b	74	40	0
ftVictoria	b	69	41	0
orbes ..	b	75	54	0
lacktown	c	79	53	0
YDNEY ..	c	77	57	0
Ventw'th.	b	86	52	0
oung ..	b	74	4[illegible]	0
Voll'gong	b	71	45	0
loss Vale	b	68	45	0
uston ..	b	87	54	0
oulburn.	b	74	42	0
Vagga ..	t	81	..	0
ape Geo.	b	73	56	0
ucanbun	b	74	46	0
eniliquin	b	83	43	0
lbury ..	b	73	42	0
odalla ..	b	55	43	0
ooma ..	f	78	24	0
Eden	b	68	46	0
abo Isld.	b	61	50	0

WEATHER MAP.

4 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

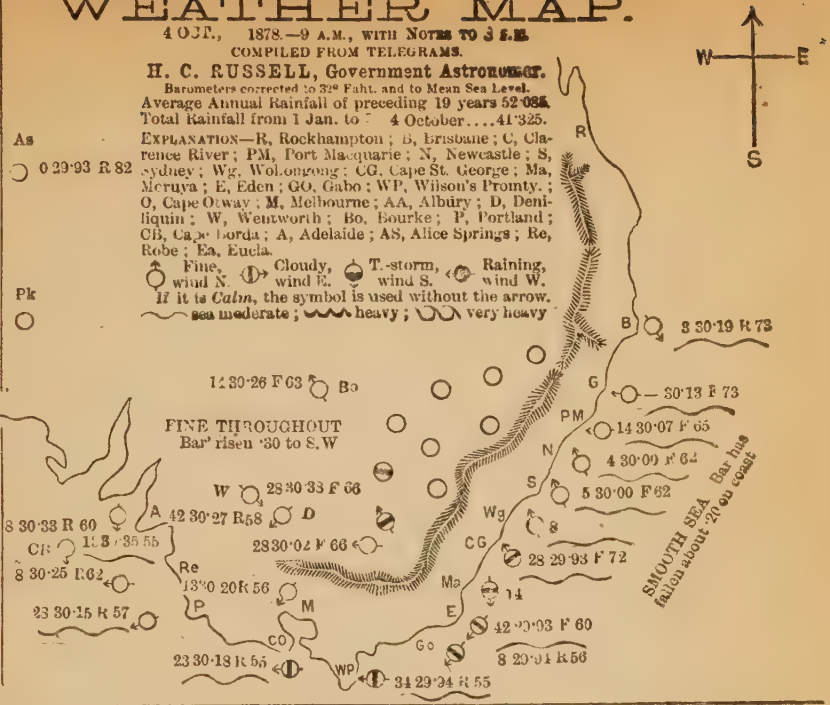
Total Rainfall from 1 Jan. to 4 October....41·325.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



Stations	W'th'r	Max	Min	Rain
Rockhampton	b	75	43	0
Gladstone	n	92	55	0
Taroom	b	78	47	0
Bourke	b	96	56	0
Charleville	b	95	53	0
Normanton	b	81	31	0
Brisbane	b	88	40	0
Warwick	..	..	..	..
P. Macquarie	m	74	54	0
Murrurundi	b	75	46	0
Tamworth	b	75	42	0
Armidale	b	87	46	0
Bathurst	b	80	53	0
Dubbo	b	97	.	0
Mudgee	b	.	54	0
Maitland	b	71	54	0
Newcastle	b	72	46	0
Orange	b	77	40	0
Albury	c	73	53	0
Forbes	b	77	59	0
Blacktown	..	..	..	..
Sydney	b	66	54	0
Wentw'th.	b	97	48	0
Young	u	76	51	0
Woll'gong	b	71	50	0
Moss Vale	u	71	51	0
Euston	b	98	53	0
Goulburn	b	76	46	0
Wagga	b	82	..	0
Cape Geo.	b	72	54	0
Queanb'an	b	76	46	0
Deniliquin	b	89	50	0
Albury	b	82	53	0
Bodalla	c	72	42	0
Cooma	c	76	45	0
Eden	u	66	52	0
Gabo Isld.	m	73	55	0

WEATHER MAP.

5 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

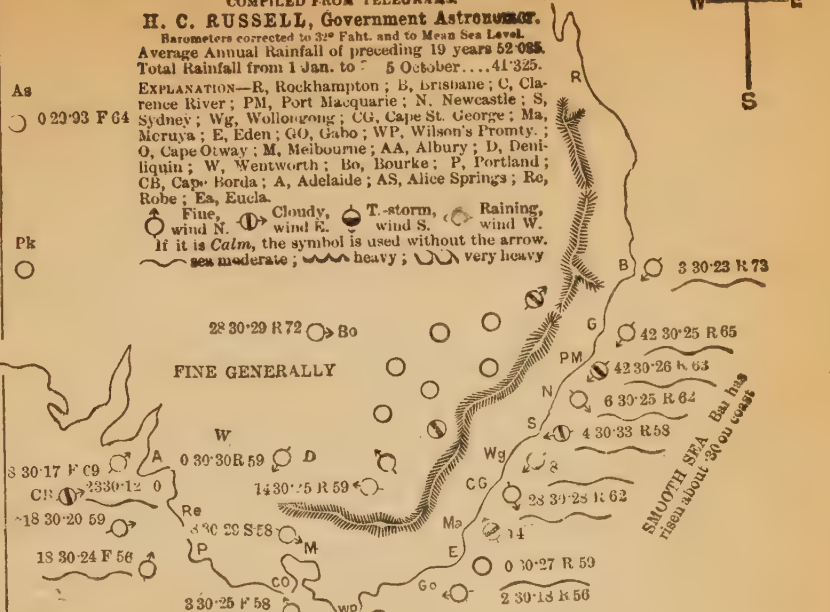
Total Rainfall from 1 Jan. to 5 October....41·325.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Meruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



Stations	W'th'r	Max	Min	Rain
Centerf'ld	g	77	44	0
Grafton ..	n	76	62	0
Inverell ..	b	79	48	0
Bourke ..	b	97	58	0
Narrabri ..	b	94	59	0
Armidale .	o	82	3	0
Runnedah	..	..	..	.
Tamworth	..	..	..	..
P. Macqrie	m	77	56	0
Murr'undi	b	75	45	0
Cassilis ..	b	87	52	0
Mus'brook	b	26	49	0
Dubbo ..	b	81	55	0
Mudgee ..	b	87	.	0
Maitland..	b		53	0
Newcastle	b	81	45	0
Orange ..	b	72	42	0
Bathurst..	b	80	42	0
MtVictoria	b	75	37	0
Forbes ..	b	74	58	0
Blacktown	c	87	45	0
SYDNEY ..	b	84	51	0
Wentw'th.	..	.	..	..
Young ..	b	76	47	0
Woll'gong	b	72	51	0
Moss Vale	u	76	42	0
Euston ..	c	78	48	0
Goulburn.	b	80	42	0
Wagga ..	[illegible]	84	..	0
Cape Geo.	b	66	54	0
Queanb'an	c	80	47	0
Deniliquin	b	73	37	0
Albury ..	b	73	39	0
Bodalla ..	b	75	39	0
Cooma ..	n	83	30	0
Eden	b	66	46	0
Gabo Isld.	b	60	49	0

WEATHER MAP.

7 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

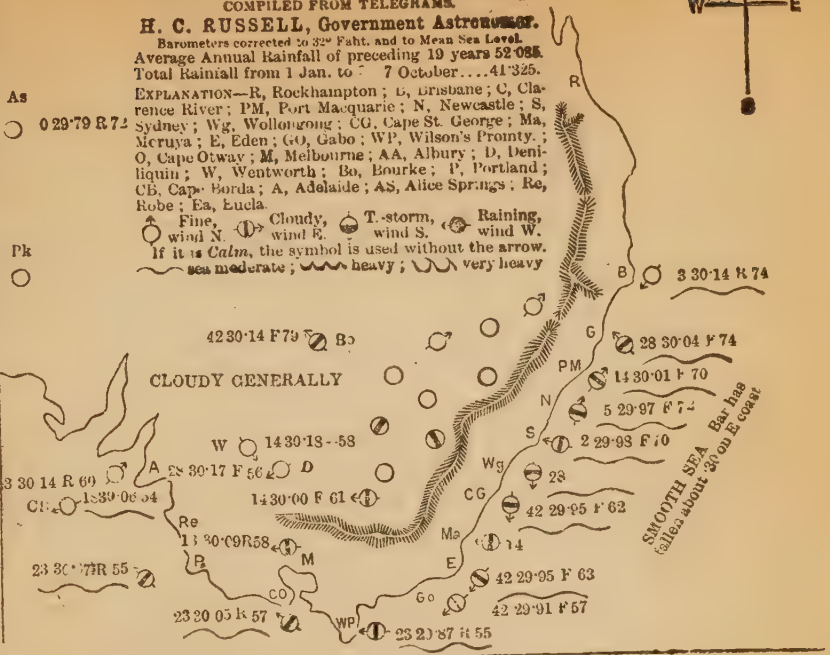
Total Rainfall from 1 Jan. to 7 October....41·325.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Roebe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



ations	W'ther	Max	Min	Rain
ntern'tn	b	77	61	0
rafton ..	u	82	57	0
verell ..	b	79	54	0
ourke ..	c	101	68	0
arra'ori ..	b	94	59	0
rmidale .	u	81	37	0
unnedah	..	..	..	.
amworth	..	..	..	..
. Macqrie	b	74	61	0
urr'undi	b	77	46	0
assilis ..	u	89	60	0
us'brook	b	83	47	0
ubbo ..	b	84	58	0
udgee ..	b	89	..	0
laitland..	c		52	0
ewcastle	u	79	62	0
range ..	b	76	51	0·02
athurst..	b	82	38	0
ltVictoria	b	76	40	0
orbes ..	b	77	58	0
Blacktown	c	81	59	0
YDNEY ..	u	71	59	0
Wentw'th.	b	58	40	0
Young ..	u	79	48	0
Woll'gong	c	74	60	0
Moss Vale	u	74	52	0
Euston ..	u	96	56	0
Goulburn.	b	85	43	0
Wagga ..	u	86	..	0
Cape Geo.	b	73	62	0
Queanb'an	c	80	45	0·18
Deniliquin	u	92	45	0
Albury ..	u	82	43	0
Bodalla ..	b	77	55	0
Cooma ..	b	76	54	0
Eden	u	66	57	0
Gabo Isld.	c	66	54	0·01

WEATHER MAP.

8 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

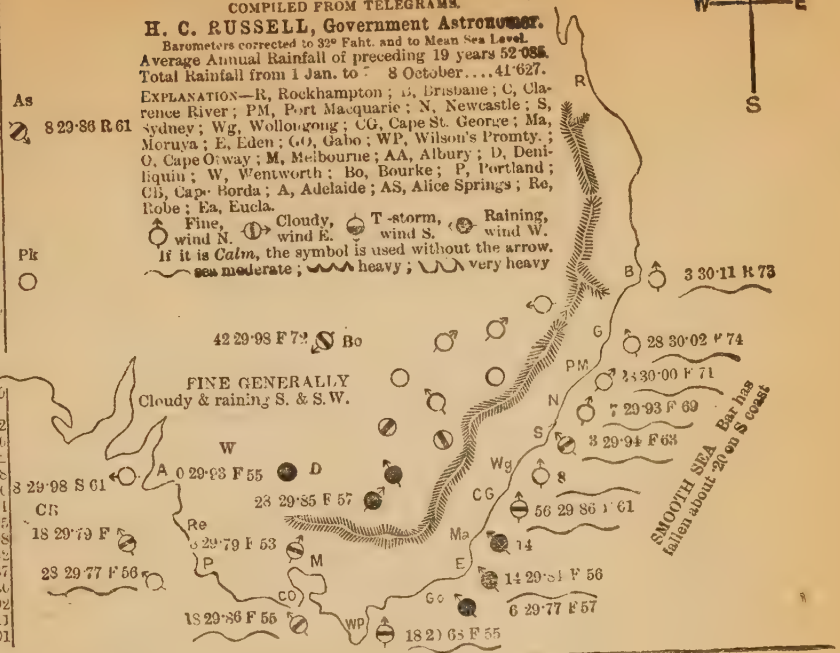
Total Rainfall from 1 Jan. to 8 October....41·627.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



ations	W'th'r	Max	Min	Rain
nterf'ld	b	77	45	0
afton ..	o	94	58	0
verell ..	b	83	53	0
ourke ..	c	95	60	0·33
arraori..	b	95	66	0
rmidale .	o	82	38	0
nnedah	b	95	53	0
nworth	..	..	..	..
. Macqrie	m	78	63	0·17
urr'undi	b	83	54	0
assilis ..	b	90	59	0
us'brook	b	95	59	0·07
ubbo ..	b	88	63	0
udgee ..	b	87	..	0·03
aitland..	c	..	63	0·08
ewcastle	b	80	60	0·21
range ..	b	73	52	0
athurst..	b	75	49	0
ltVictoria	b	79	49	0·40
orbes ..	b	80	60	0
lacktown .	..	..	..	..
YDNEY ..	c	74	58	0·30
Wentw'th.	..	..	..	..
Young ..	c	69	47	0·12
Woll'gong	c	67	57	0·20
Moss Vale	r	66	53	0·02
Euston ..	c	72	54	0·08
Goulburn.	u	80	52	0·00
Wagga ..	u	86	..	0·31
Cape Geo.	b	66	58	0·05
Queanb'an	c	65	52	0·08
Deniliquin	r	68	47	0·52
Albury ..	r	70	51	0·37
Bodalla ..	c	63	52	0·00
Cooma ..	p	73	48	0·02
Eden	p	66	54	0·11
Gabo Isld.	q	59	54	0·01

WEATHER MAP.

9 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·035.

Total Rainfall from 1 Jan. to 9 October....41·793.

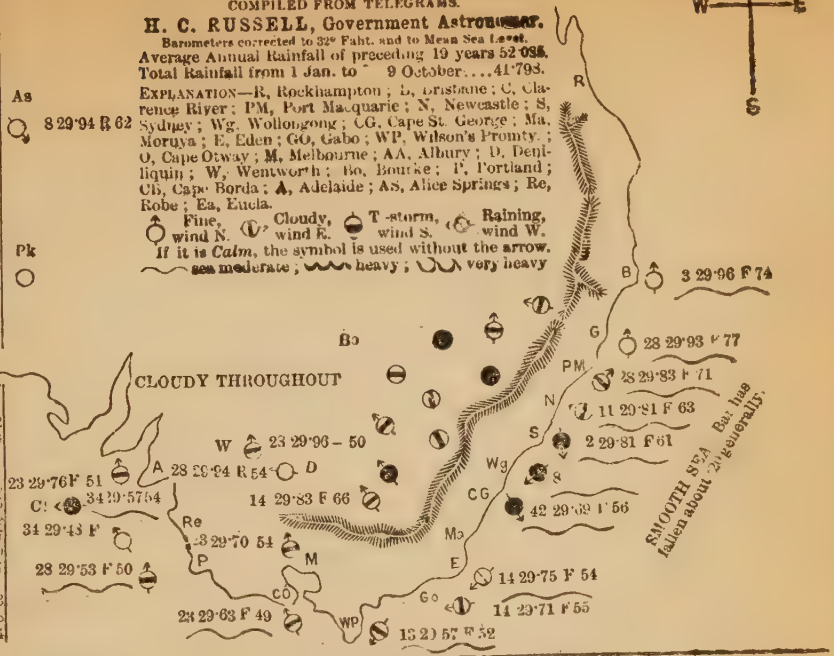
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; Cb, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'ath'r	Max	Min	Rain
Tenterfield	u	77	40	0
Grafton ..	o	94	52	0
Inverell ..	u	78	63	0
Bourke ..	..	..	..	..
Narrandera	r	89	64	0·65
Armidale .	u	75	51	0
Gunnedah	.	.	..	..
Tamworth	..	..	..	..
P. Macquarie	u	77	65	0
Murr'undi	r	80	58	0·12
Cassilis ..	u	89	57	0
Mus'brook	u	84	63	0·07
Dubbo ..	u	83	61	0·71
Mudgee ..	r	83	..	0·30
Maitland..	r		65	0·02
Newcastle	u	78	63	0·65
Orange ..	u	75	50	0·35
Bathurst..	u	79	51	0·19
MtVictoria	f	75	49	0
Forbes ..	c	78	59	0·15
Blacktown	r	84	60	0·12
SYDNEY ..	u	77	60	0·17
Wentw'th.	b	76	41	0
Young ..	u	75	53	0·22
Woll'gong	r	74	41	0·26
Moss Vale	u	76	48	0
Euston ..	c	73	40	0
Goulburn.	u	83	48	0·10
Wagga ..	u	80	..	0·25
Cape Geo.	r	66	55	0·26
Queanb'an	c	74	49	0·07
Deniliquin	b	64	39	0·49
Albury ..	c	68	43	0·67
Bodalla ..	..	76	53	0
Cooma ..	p	70	41	0·03
Eden	u	64	51	0·68
Gabo Isld.	c	63	50	0·14



WEATHER MAP.

10 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

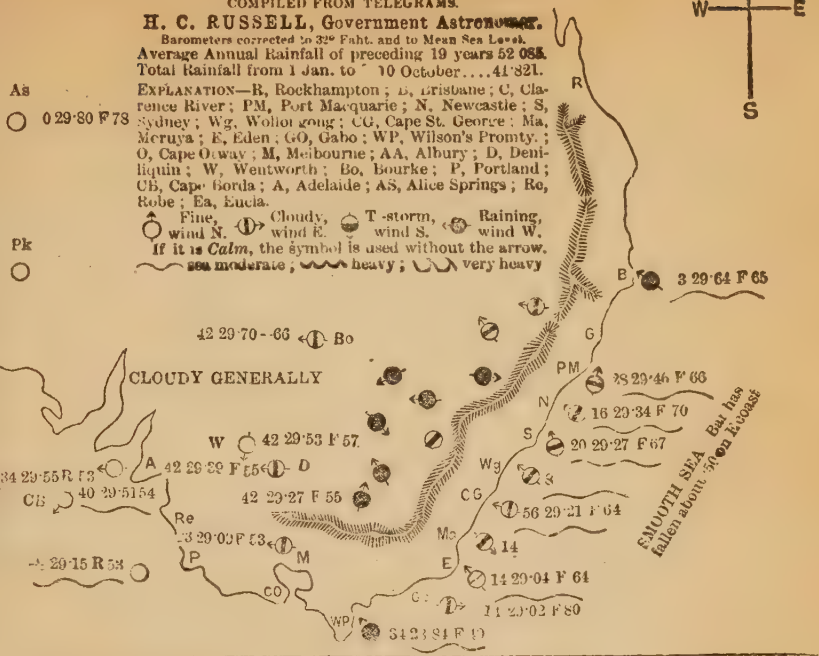
Total Rainfall from 1 Jan. to 10 October....41·821.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Meruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



Stations	W'thr	Max	Min	Rain
Tenterfi'ld	u	70	40	1·00
Grafton ..	..	..	..	..
Inverell ..	u	70	58	1·16
Bourke ..	u	82	57	0
Narrabri ..	b	66	60	0·15
Armidale .	..	..	..	..
Gunnedah	u	65	55	0·84
Tamworth	..	..	..	..
P. Macqrie	u	73	61	0·50
Murr'undi	c	80	53	0·70
Cassilis ..	b	90	58	0
Mus'brook	b	70	69	0·40
Dubbo ..	p	72	56	0·37
Mudgee ..	r	62	..	0·40
Maitland..	b	..	61	0·00
Newcastle	b	74	59	0
Orange ..	r	60	47	0·68
Bathurst..	r	78	52	2·02
Mt Victoria	u	56	44	0
Forbes ..	r	72	55	0·73
Blacktown	..	69	56	0·29
SYDNEY ..	u	68	60	0·02
Wentw'th.	b	73	50	0
Young ..	p	62	57	0·53
Woll'gong	c	67	57	0
Moss Vale	r	62	51	0
Euston ..	u	70	52	0
Goulburn.	p	69	49	0·08
Wagga ..	r	86	..	0·00
Cape Geo.	c	65	55	0·00
Queanb'an	c	61	47	0·37
Deniliquin	u	64	44	0·00
Albury ..	p	68	44	1·38
Bodalla ..	c	67	49	0
Cooma ..	p	61	43	0·04
Eden	b	64	55	0
Gabo Isld.	g	63	54	0

WEATHER MAP.

11 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 11 October....41·944.

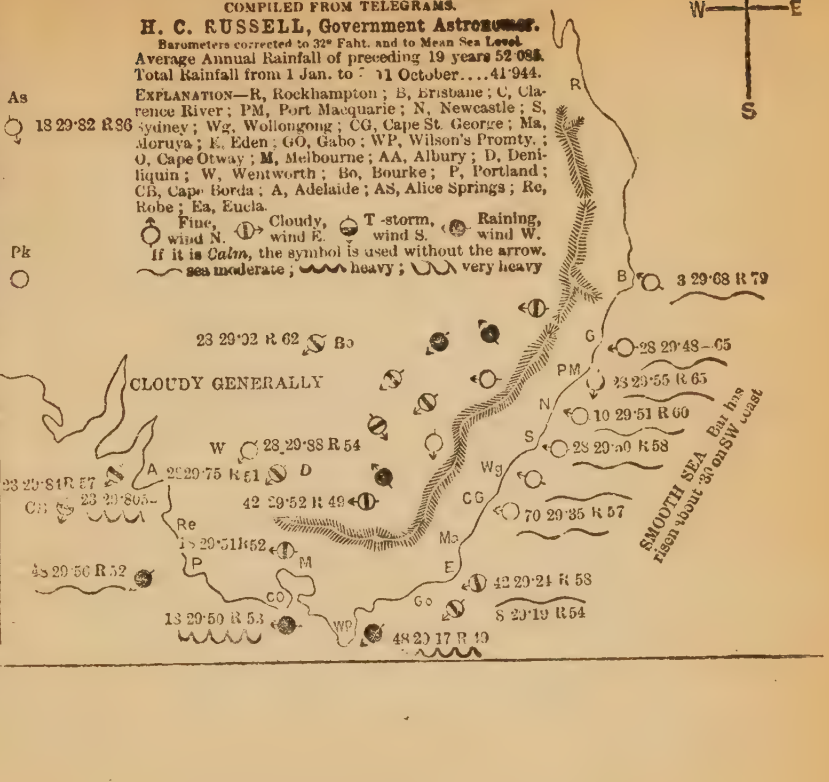
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	u	65	45	0
Grafton ..	b	90	54	0
Inverell ..	r	68	55	0·56
Bourke ..	c	77	51	0
Narrabri ..	r	71	52	0·10
Armidale .	u	73	30	0 56
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	78	57	0
Murr'undi	u	61	46	0·29
Cassilis ..	d	64	48	2·20
Mus'brook	b	78	41	0·02
Dubbo ..	u	75	53	0
Mudgee ..	b	52	..	5·30
Maitland..	b	..	55	0
Newcastle	b	79	51	0
Orange ..	c	50	35	1·10
Bathurst..	u	54	29	0 75
MtVictoria	c	54	34	0·20
Forbes ..	u	68	53	0·38
Blacktown	b	71	50	0·04
SYDNEY ..	b	65	52	0·12
Wentw'th.	b	73	44	0·25
Young ..	u	58	24	0·32
Woll'gong	b	69	52	0
Moss Vale	b	59	40	0·13
Euston ..	b	76	44	0
Goulburn.	p	53	33	0 30
Wagga ..	u	57	..	0·24
Cape Geo .	b	62	48	0
Queanb'an	b	55	35	0·2
Deniliquin	u	68	27	0·14
Albury ..	u	55	25	0 24
Bodalla ..	..	.....		..
Cooma ..	p	48	24	0·20
Eden	b	63	51	0
Gabo Isld.	q	71	47	0·00



WEATHER MAP.

12 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 12 October....41·944.

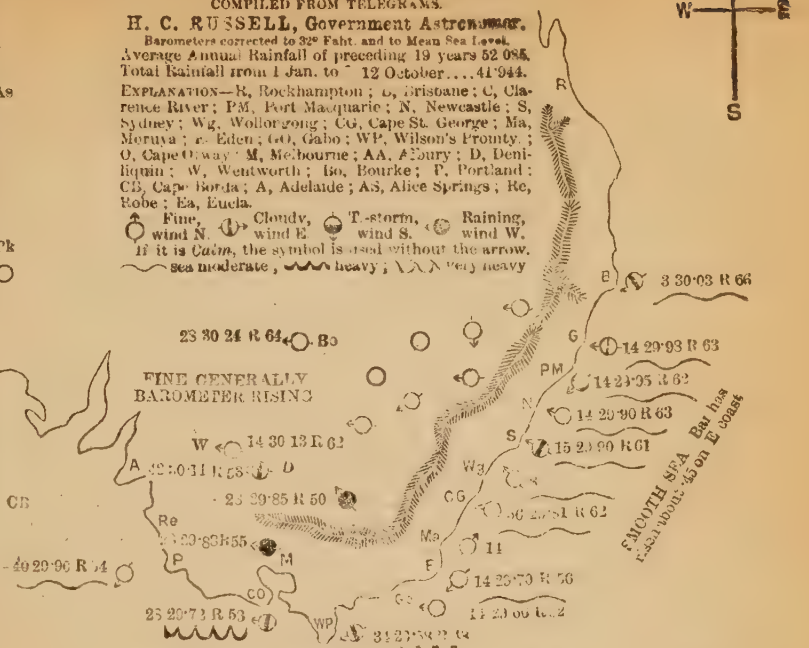
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate, heavy; very heavy

Stations	Weather	Max	Min	Rain
Tenterfield	b	69	43	0
Grafton ..	b	88	58	0
Inverell ..	b	63	45	0·06
Bourke ..	b	76	54	0
Narrabri ..	b	72	48	0
Armidale ..	b	76	36	[illegible]
Gunnedah	b	68	38	0·01
Tamworth	..	..	..	..
P. Macquarie	b	71	45	0
Murr'undi	c	58	38	0
Cassilis ..	b	68	39	0
Mus'brook	b	74	41	0
Dubbo ..	b	69	49	0
Mudgee ..	b	64	..	0
Maitland ..	b	67	47	0
Newcastle	b	77	49	0
Orange ..	b	53	28	0
Bathurst ..	n	53	30	0
Mt Victoria	n	56	33	0
Forbes ..	b	71	38	0
Balranald	b	66	43	0
Sydney ..	c	64	51	0
Wentw'th.	b	44	..	0
Young ..	b	5[illegible]	45	0·08
Woll'gong	b	6[illegible]	55	0
Moss Vale	b	54	42	0
Euston ..	b	[illegible]	40	0
Goulburn ..	c	54	45	0
Wagga ..	b	56	..	0
Cape Geo.	b	66	51	0
Queanb'an	b	59	41	0
Deniliquin	g	64	47	0
Albury ..	r	60	39	0·03
Bodalla ..	b	73	41	0
Cooma ..	b	61	35	0
Eden	b	62	44	0
Gabo Isld.	b	63	46	0·02



WEATHER MAP.

14 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·035.

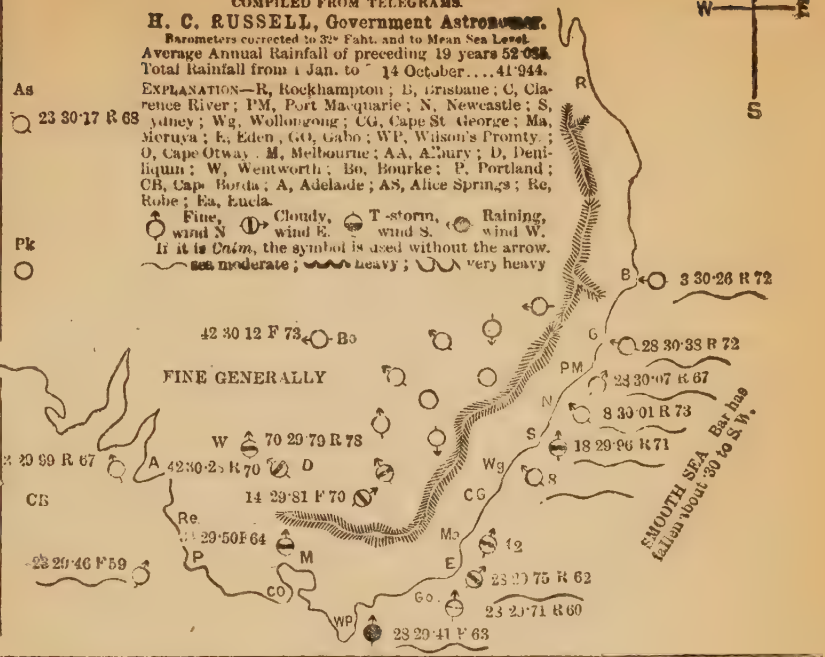
Total Rainfall from 1 Jan. to 14 October....41·944.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N; Cloudy, wind E; T-storm, wind S; Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



Stations	W'th'r	Max	Min	Rain
Tenterfield	b	71	36	0
Grafton ..	b	90	38	0
Inverell ..	b	71	43	0
Bourke ..	b	89	60	0
Narrawri ..	b	84	46	0
Armidale ..	b	61	36	0
Gunnedah	b	83	42	0
Tamworth	..	..	..	..
P. Macqrie	b	72	59	0
Murr'undi	b	69	40	0
Cassilis ..	b	81	39	0
Mus'brook	b	83	45	0
Dubbo ..	b	82	49	0
Mudgee ..	b	76	..	0
Maitland..	b	73	41	0
Newcastle	b	80	54	0
Orange ..	b	66	43	0
Bathurst..	n	70	36	0
Mt Victoria	..	..	..	..
Forbes ..	b	75	60	0
Blacktown	..	..	..	..
SYDNEY ..	c	74	62	0
Wentw'th.	b	89	63	0
Young ..	b	71	41	0
Woll'gong	m	73	52	0
Moss Vale	b	67	40	0
Euston ..	c	88	52	0
Goulburn.	b	70	43	0
Wagga ..	c	80	..	0
Cape Geo.	..	..	..	..
Queanb'an	b	68	41	0
Deniliquin	b	8[illegible]	42	0
Albury ..	c	72	40	0
Bodalla ..	c	73	36	0
Cooma ..	c	70	42	0
Eden	u	66	55	0
Gabo Isld.	u	70	57	0

WEATHER MAP.

15 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

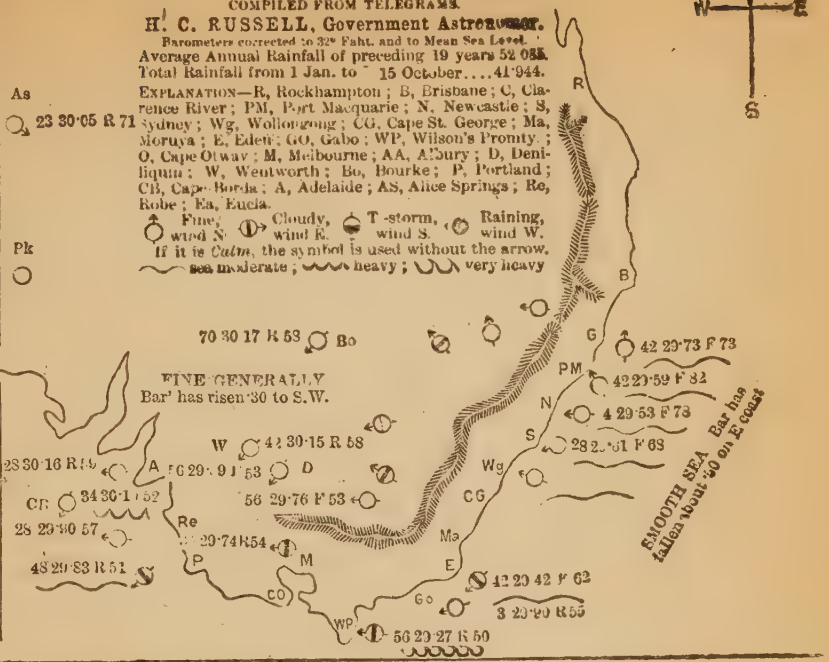
Total Rainfall from 1 Jan. to 15 October....41·944.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



Stations	Wind	Max	Min	Rain
Tenterfield	b	73	55	0
Grafton ..	b	99	54	0
Inverell ..	b	75	56	0
Bourke ..	b	97	63	0
Narrandera	c	89	68	0
Armidale ..	b	72	33	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	m	80	63	0
Murr'undi	b	72	59	0
Cassilis ..	b	87	64	0
Mus'brook	b	89	65	0
Dubbo ..	b	83	64	0
Mudgee ..	b	82	..	0
Maitland..	b	80	49	0
Newcastle	b	88	66	0
Orange ..	c	73	47	0
Bathurst..	n	77	52	0
MtVictoria	b	75	40	0
Forbes ..	b	74	59	0
Blacktown	b	87	67	0
SYDNEY ..	b	84	68	0
Wentw'th.	b	65	41	0
Young ..	c	77	50	0
Woll'gong	b	79	48	0
Moss Vale	c	76	50	0·15
Euston ..	b	95	51	0
Goulburn.	b	79	46	0·07
Wagga ..	u	80	..	0
Cape Geo.	.	..	..	..
Queanb'an	b	76	44	0
Deniliquin	b	92	42	0
Albury ..	c	73	46	0
Bodalla ..	.	..	..	..
Cooma ..	u	79	41	0·07
Eden	q		..	0
Gabo Isld	b	80	52	0·05

WEATHER MAP.

16 OCT., 1878.—9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·088.

Total Rainfall from 1 Jan. to 16 October....41·944.

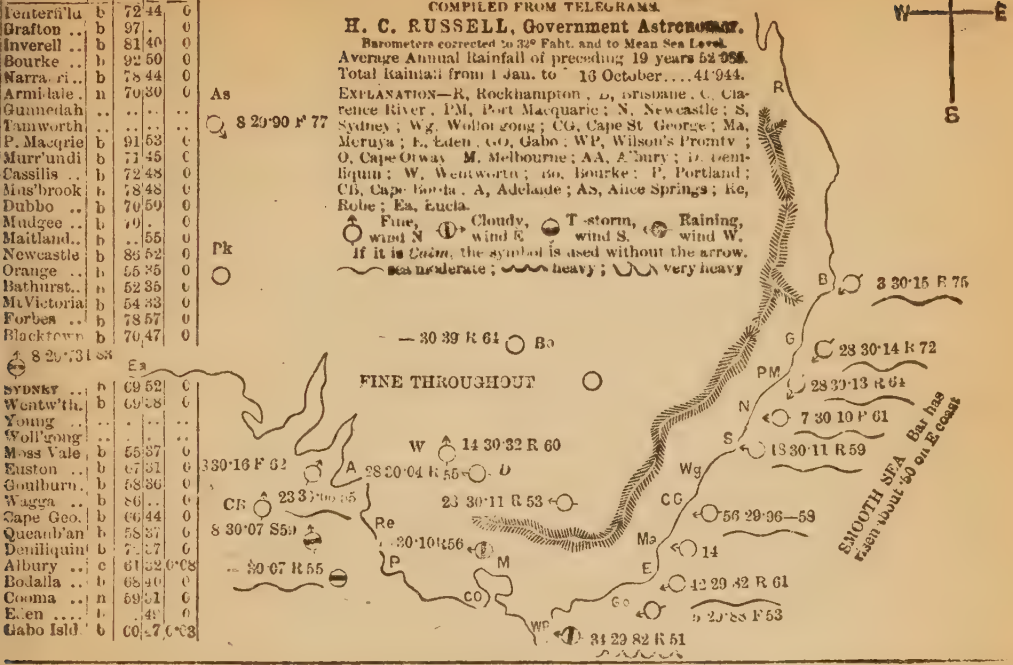
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Meruya; E, Eden; GO, Gabo; WP, Wilson's Promntry; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Bourda; A, Adelaide; As, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N; Cloudy, wind E; T-storm, wind S; Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	b	72	44	0
Grafton	b	97	.	0
Inverell	b	81	40	0
Bourke	b	92	50	0
Narrandera	b	78	44	0
Armidale	n	70	30	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	b	91	53	0
Murr'undi	b	77	45	0
Cassilis	b	72	48	0
Mus'brook	b	78	48	0
Dubbo	b	70	50	0
Mudgee	b	70	.	0
Maitland	b	..	55	0
Newcastle	b	86	52	0
Orange	b	55	35	0
Bathurst	n	52	35	0
McVictoria	b	54	33	0
Forbes	b	78	57	0
Blacktown	b	70	47	0
SYDNEY	b	69	52	0
Wentw'th	b	69	38	0
Young	..	.	..	..
Woll'gong	..	.	..	..
Moss Vale	b	55	37	0
Euston	b	67	31	0
Goulburn	b	58	36	0
Wagga	b	86	..	0
Cape Geo.	b	66	44	0
Queanb'an	b	58	37	0
Deniliquin	b	7[illegible]	37	0
Albury	c	61	32	0·08
Bodalla	b	68	40	0
Cooma	n	59	31	0
Eden	b	..	49	0
Gabo Isld	b	60	47	0·03



WEATHER MAP.

17 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·985.

Total Rainfall from 1 Jan. to 17 October....41·944.

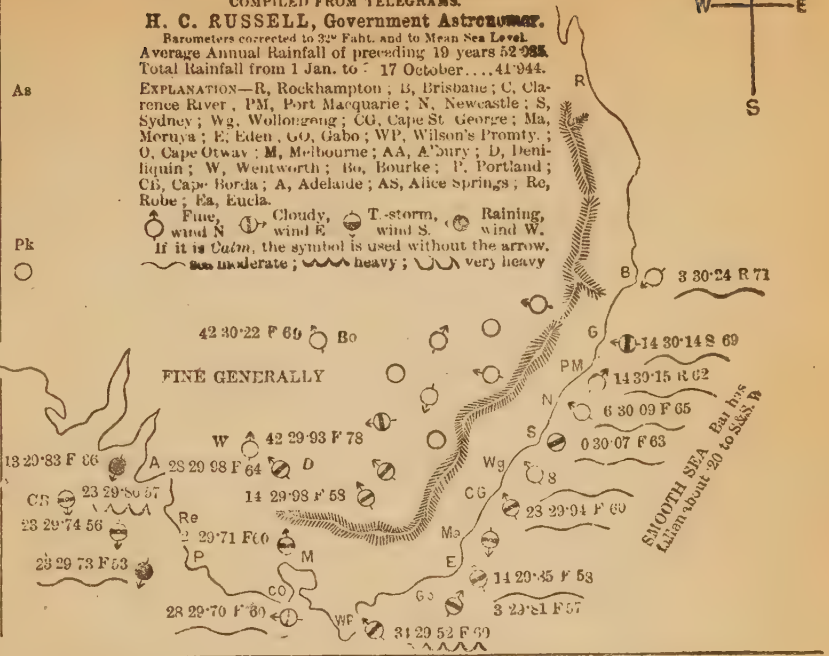
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River, PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St George; Ma, Moruya; E, Eden, GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, A'bury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N; Cloudy, wind E; T.-storm, wind S; Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain	
Centerf'lu	b	68	35	0	
Grafton ..	b	91	.	0	
Inverell ..	b	69	38	0	
Bourke ..	b	81	53	0	
Narrabri ..	b	83	45	0	
Armidale .	b	70	30	0	As
Gunnedah	b	83	38	0	
Tamworth	..	..	..	..	
P. Macqrie	m	72	48	0	
Murr'undi	b	78	42	0	
Cassilis ..	b	77	56	0	
Mus'brook	b	78	44	0	
Dubbo ..	b	69	44	0	
Mudgee ..	b	73	..	0	
Maitland..	b	..	47	0	
Newcastle	b	77	47	0	Pk
Orange ..	n	54	36	0	
Bathurst..	n	63	32	0	
Mt Victoria	b	60	42	0	
Forbes ..	b	74	58	0	
Blacktown	..	..	..	..	
Sydney ..	b	72	50	0	
Wentw'th.	b	79	54	0	
Young ..	u	.	40	0	
Woll'gong	b	70	45	0	
Moss Vale	u	60	48	0	
Euston ..	u	80	59	0	
Goulburn.	u	61	48	0	
Wagga ..	b	80	..	0	
Cape Geo.	c	73	49	0	
Queanb'an	b	65	37	0	
Deniliquin	u	71	49	0	
Albury ..	m	62	39	0	
Bodalla ..	c	73	40	0	
Cooma ..	c	67	42	0	
Eden	n	.	48	0	
Gabo Isld.	u	59	50	0	



WEATHER MAP.

13 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

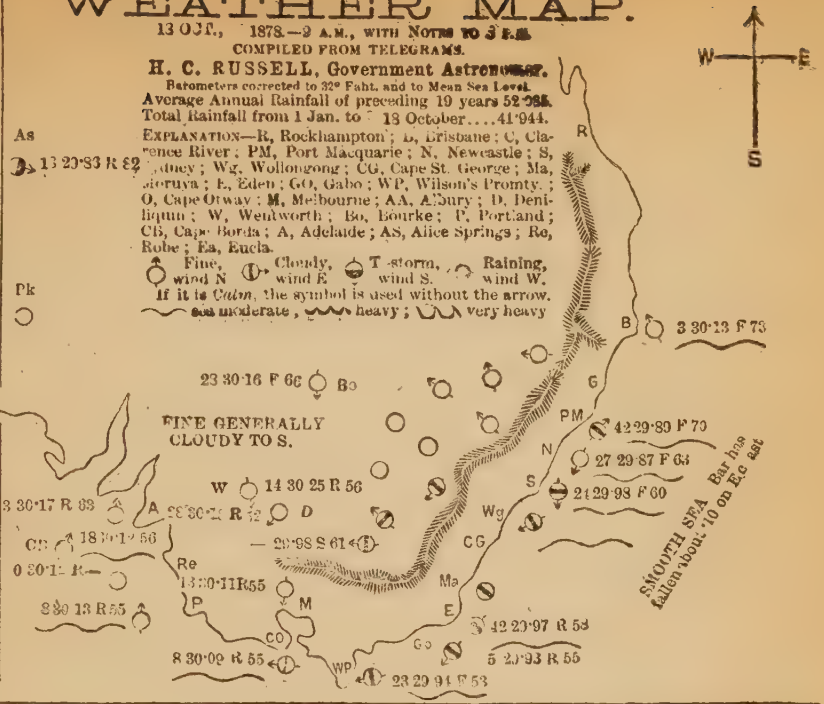
Average Annual Rainfall of preceding 19 years 52·985.

Total Rainfall from 1 Jan. to 13 October....41·944.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
sea moderate, heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Cinterh'ld	b	74	40	0
Grafton ..	b	91	..	0
Inverell ..	b	75	47	0
Bourke ..	b	86	55	0
Carrarori ..	b	89	62	0
Armidale ..	b	70	30	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
Port Macqrie	m	73	60	0
Murr'umdi	b	75	56	0
Dassilis ..	b	86	45	0
Glus'brook	b	87	53	0
Dubbo ..	b	80	00	0
Gudgee ..	b	79	..	0
Maitland..	b	..	56	0
Newcastle	b	80	58	0
Orange ..	b	71	50	0
Bathurst..	b	75	49	0
Port Victoria	b	73	57	0
Forbes ..	b	75	58	0
Blacktown	..	..	..	..
Sydney ..	c	72	58	0
Wentw'th.	b	94	56	0
Young ..	b	72	57	0
Woll'gong	c	75	49	0
Moss Vale	u	75	49	0
Euston ..	b	95	44	0
Goulburn.	g	72	47	0
Tagga ..	b	80	..	0
Cape Geo.	..	..	..	..
Queanb'an	c	75	48	0
Deniliquin	b	89	37	0
Albury ..	c	78	45	0
Bodalla ..	c	80	45	0
Cooma ..	c	74	41	0
Eden	b	..	48	0
Gabo Isld.	c	70	49	0



WEATHER MAP.

19 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·025.

Total Rainfall from 1 Jan. to 19 October....41·944.

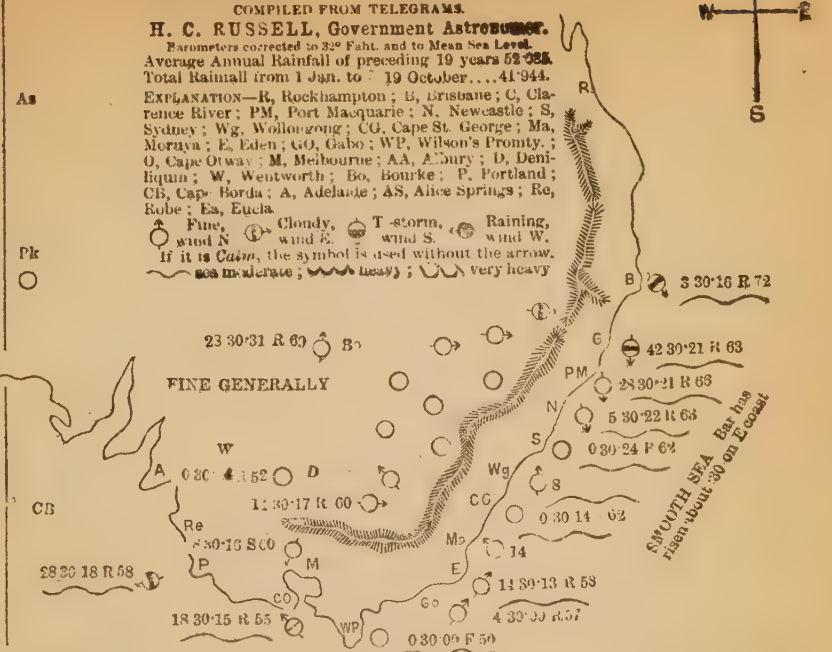
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Roebe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Centerfld	g	80	46	0
Grafton ..	g	99	..	0
Inverell ..	b	82	45	0
Bourke ..	b	97	54	0
Narrandi ..	b	96	58	0
Armidale .	b	78	24	0
Gunnedah	b	99	91	0
Tamworth	..	..	..	..
P. Macqrie	b	78	56	0
Murr'undi	b	82	51	0
Cassilis ..	b	88	38	0
Mus'brook	b	94	42	0
Dubbo ..	b	80	52	0
Mudgee ..	b	80	..	0
Maitland..	c	..	57	0
Newcastle	b	69	55	0
Orange .	b	71	40	0
Bathurst..	n	77	38	0
Mt Victoria	b	73	40	0
Forbes ..	..	..	..	.
Blacktown	.	..	..	..
SYDNEY ..	b	63	55	0
Wentw'th.	..	..	..	.
Young ..	b	73	45	0
Woll'gong	b	64	51	0
Moss Vale	c	55	45	0
Euston ..	b	78	42	0
Goulburn.	b	76	40	0
Wagga ..	b	7[illegible]	..	0
Cape Geo.	b	64	58	0
Queanb'an	b	70	46	0
Deniliquin	b	81	48	0
Albury ...	b	87	51	0
Bodalla ..	b	68	38	0
Cooma ..	b	62	35	0
Eden	b	..	46	.
Gabo Isld	m	60	46	0



WEATHER MAP.

21 OCT., 1878.—9 A.M., WITH NOTES TO 9 P.M.

COMPILED FROM TELEGRAMS

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·055.

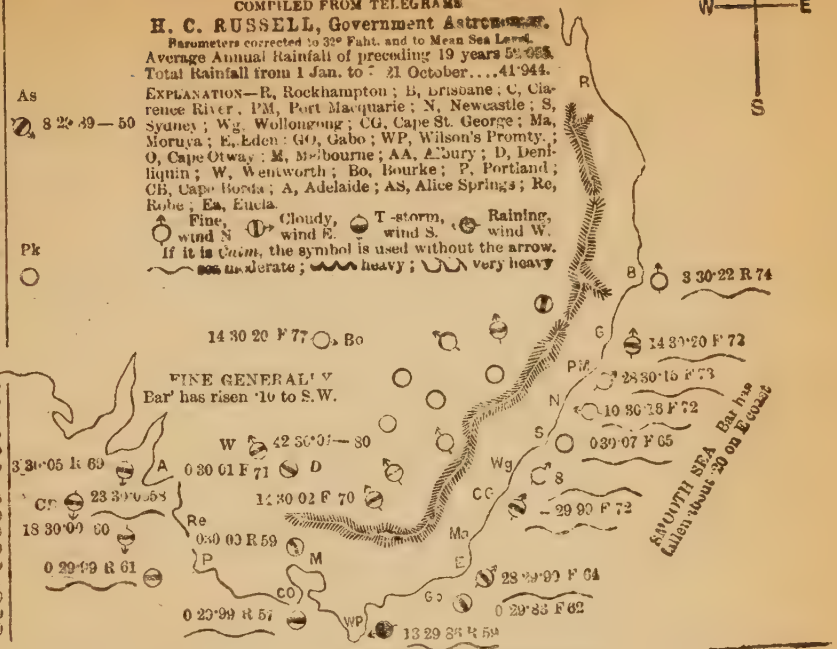
Total Rainfall from 1 Jan. to 21 October....41·944.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Bonda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N; Cloudy, wind E; T-storm, wind S; Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

moderate; heavy; very heavy



Stations	W'thr	Max	Min	Rain
Rockhampton	u	72	56	0
Brafton ..	u	100	.	0
Inverell ..	u	82	59	0
Bourke ..	b	97	61	0
Darraori ..	b	94	63	0
Armidale ..	c	73	30	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	m	76	62	0
Murr'undi	b	72	45	0
Cassilis ..	b	87	45	0
Mus'brook	b	89	47	0
Dubbo ..	b	80	53	0
Mudgee ..	m	86	.	0
Maitland..	b	..	50	0
Newcastle	b	75	56	0
Orange ..	b	74	47	0
Bathurst..	n	81	37	0
McVictoria	b	77	42	0
Forbes ..	b	76	42	0
Blacktown	b	82	50	0
SYDNEY ..	b	69	56	0
Wentw'th.	u	95	50	0
Young ..	b	76	41	0
Woll'gong	b	66	55	0
Moss Vale	b	65	51	0
Euston ..	u	94	60	0
Bonburn.	..	..	..	..
Wagga ..	b	80	..	0
Cape Geo.	b	74	57	0
Queanb'an	b	78	41	0
Deniliquin	b	86	53	0
Albury ..	u	92	27	0
Bodalla ..	..	..	..	..
Cooma ..	u	79	55	0
Eden	u	.	58	0
Gabo Isld.	c	71	57	0

WEATHER MAP.

22 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 22 October....41·944.

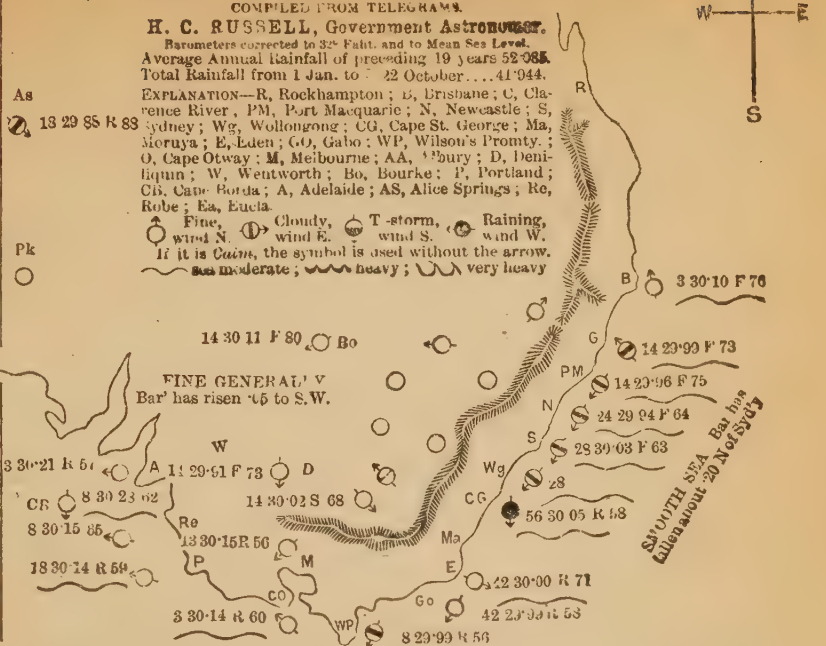
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River, PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; Cb, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	Weather	Max	Min	Rain
Gympie	b	75	50	0
Drayton	b	92	.	0
Inverell	b	82	54	0
Bourke	b	102	73	0
Narrandera	b	97	62	0
Armidale	b	79	32	0
Tumbarumba	c	100	60	0
Tamworth	..	..	..	..
P. Macquarie	m	78	64	0
Murrurundi	u	82	64	0
Cassilis	b	92	42	0
Glus'brook	b	96	64	0
Dubbo	b	88	68	0
Rudgee	b	89	.	0
Maitland	b	..	67	0·06
Newcastle	u	85	62	0·01
Orange	b	81	58	0
Bathurst	b	86	55	0·11
Mt Victoria	b	84	53	0·10
Forbes	b	83	63	0
Blacktown	b	93	59	0·08
Eucla	S 30·09 R 2			
SYDNEY	u	79	60	0
Wentw'th.	..		..	..
Young	b	95	61	0
Woll'gong	c	73	54	0
Moss Vale	r	84	52	0
Euston	..	..	..	..
Goulburn	u	89	51	0
Wagga	b	82	..	0
Cape Geo.	p	66	55	0
Queanb'an	b	84	56	0
Deniliquin	..	..	.	..
Albury	b	80	48	0
Bodalla	..	..	..	..
Cooma	c	78	46	0
Eden	.	..	..	..
Gabo Isld.	m	67	54	0



WEATHER MAP.

23 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·065.

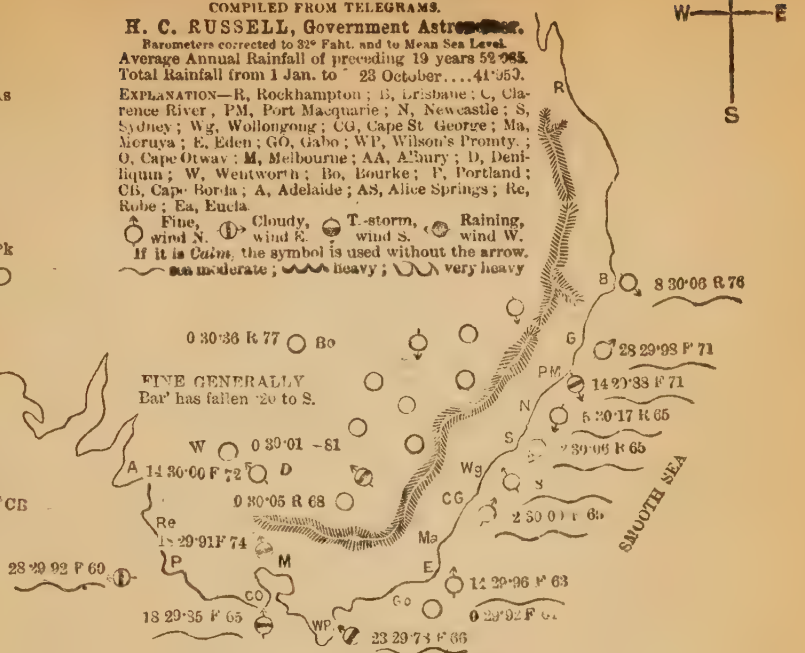
Total Rainfall from 1 Jan. to 23 October....41·055.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River, PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



Stations	W'th'r	Max	Min	Rain
ontarlo	b	87	50	0
rafton ..	.	..	..	..
nverell ..	b	86	60	0
ourke ..	b	95	64	0
arra ri..	b	102	62	0
rmidale .	b	83	40	0
unnedah	..	.	..	..
amworth	..	.	..	..
. Macqrie	b	8	52	0
lurr'undi	a	8	48	0
assilis ..	b	8	47	0
las'brook	b	9	53	0
ubbo ..	b	89	65	0
ludgee ..	b	9	61	0
laitland..	b	79	53	0
'ewcastle	b	79	55	0
range ..	..	.	..	..
athurst..		8	43	0
ltVictoria	,	7	40	0
orbes ..		8	32	0
lacktown	b	7	47	0
VDNEY ..	b	66	53	0
Ventw'th.	b	89	47	0
oung ..	b	83	54	0
Voll'gong	b	66	53	0
'oss Vale	b	8	42	0
uston ..		9	1	0
oulburn.	b	71	44	0
'agga ..	b	8	..	0
ape Geo.	c	69	51	0
ucanb'an	b	83	43	0
eniliquin	b	8	46	0
lbury ..	b	8	46	0
odala ..	.	..	..	..
poma ..	a	78	40	0
den	b	.	51	0
abo Isld.	b	60	51	0

WEATHER MAP.

21 OCT., 1878.—9 A.M., WITH *NOTES TO 3 P.M.*

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·986.

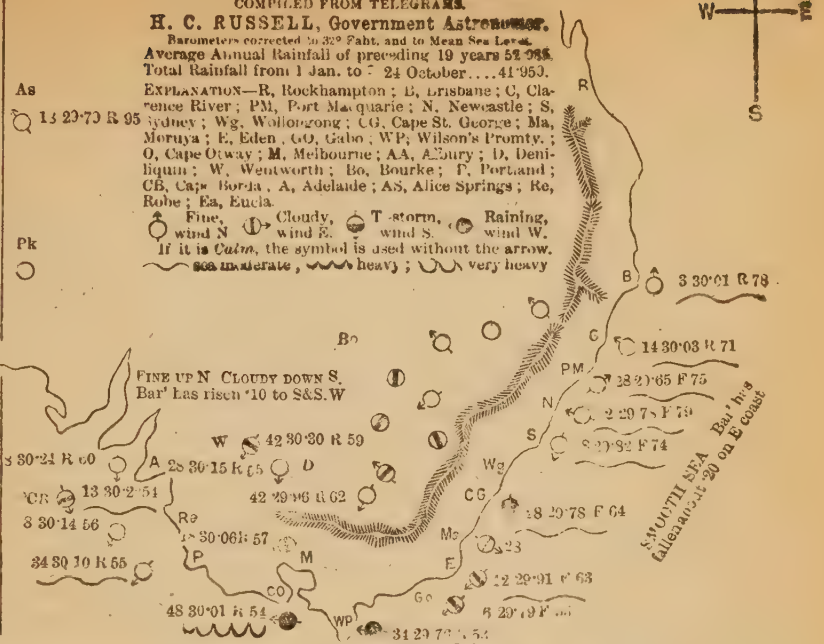
Total Rainfall from 1 Jan. to 24 October....41·953.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden, GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda, A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N; Cloudy, wind E; T-storm, wind S; Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

~ moderate, ~~ heavy; ~~~ very heavy



Stations	W'th'r	Max	Min	Rain
ontarlie	b	88	49	0
rafton ..	b	92	..	0
nverell ..	b	88	57	0
ourke ..	.	..	..	..
arra ri..	b	96	60	0
rmidale .	b	82	40	0
uonedah	..	.	.	..
amworth	..	..	..	..
. Macqrie	..	.	..	..
lurr'undi	b	81	54	0
assilis ..	..	..	..	..
us'brook	b	100	56	0
ubbo ..	b	84	02	0
udgee ..	..	.	.	..
aitland..	b	72	58	0
ewcastle	b	81	60	0
range ..	b	80	55	0
athurst..	n	82	48	0
tVictoria	b	79	60	0
orbes ..	c	86	07	0
lacktown	b	84	54	0
YDNEY ..	b	75	59	0
'entw'th.	c	96	50	0
oung ..	u	86	58	0
'oll'gong	..	..	..	..
oss Vale	u	78	60	0
uston ..	c	94	54	0
oulburn..	b	82	60	0
agga ..	b	82	..	0
ape Geo.	r	71	57	0
reanb'an	u	84	52	0
eniliquin	b	92	56	0
lbury ..	b	86	44	0
alla ..	n	79	49	0
oma ..	u	84	52	0·08
len	b	.	54	0
abo Isld	m	68	51	0

WEATHER MAP.

25 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·005.

Total Rainfall from 1 Jan. to 25 October....42·019.

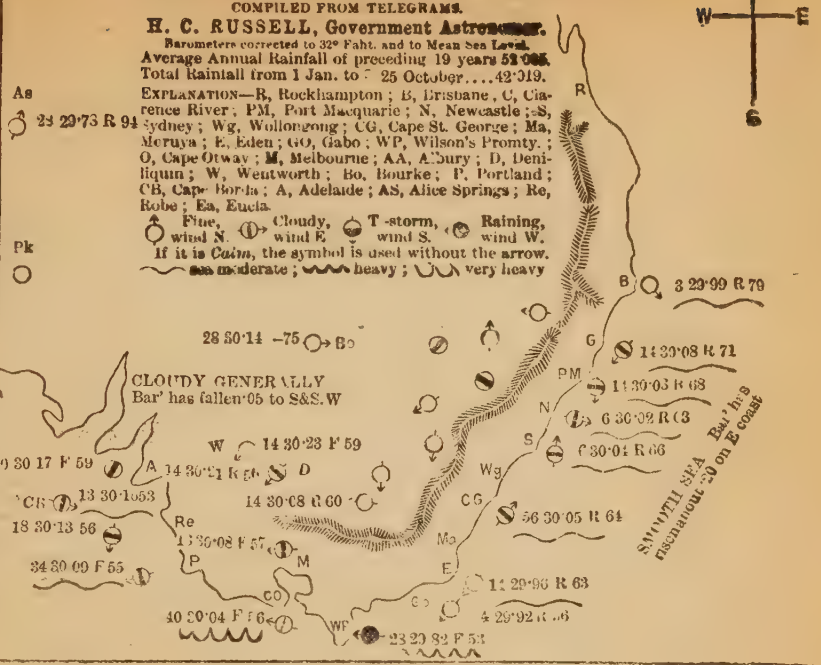
EXPLANATION—R, Rockhampton; B, Brisbane, C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Cooktown	b	89	59	0
Grafton	e	100	.	0
Inverell	b	86	56	0
Bourke	b	103	62	0
Narrabri	c	100	64	0
Armidale	b	80	41	0
Gunnedah	b	90	59	0
Tamworth	..	..	..	..
P. Macquarie	c	78	61	0
Murr'undi	u	85	54	0
Cassilis	u	93	58	0
Has'brook	c	100	58	0
Dubbo	b	88	57	0
Mudgee	c	91	..	0
Maitland	u	92	60	0·08
Newcastle	u	98	59	0·01
Orange	b	74	39	0
Bathurst	n	77	35	0
Mt Victoria	b	76	40	0
Forbes	..	..	..	..
Blacktown	b	92	51	0·01
SYDNEY	c	78	57	0·07
Wentw'th	b	75	45	0
Young	.	..	..	..
Woll'gong	..	..	..	..
Moss Vale	b	75	45	0
Euston	n	78	45	0
Goulburn	n	74	38	0
Yagga	..	.	..	..
Cape Geo.	..	..	..	..
Queanb'an	b	80	3	0
Deniliquin	b	71	38	0
Albury	b	70	37	0
Bodalla	.	..	..	..
Cooma	n	78	29	0
Eden	b	69	51	0
Gabo Isld	b	66	49	0



WEATHER MAP.

23 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 26 October....42·019.

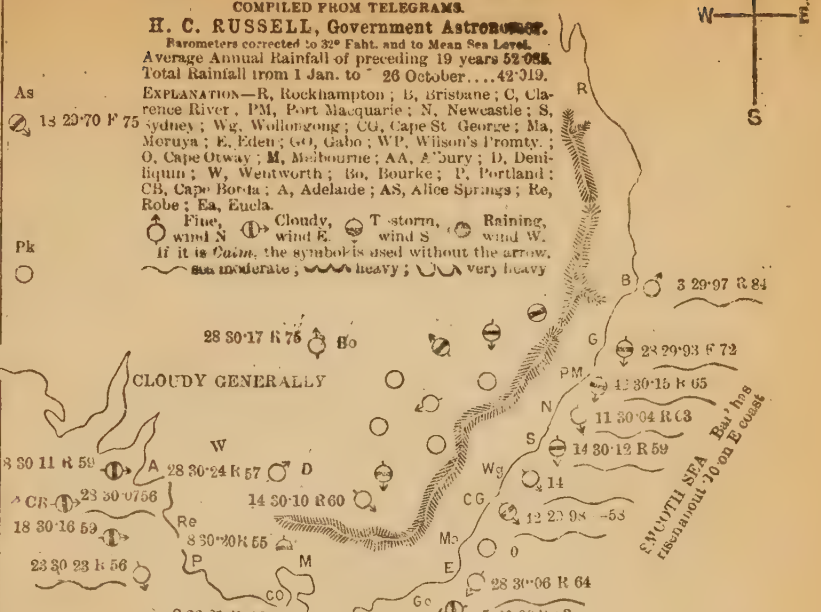
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River, PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Bordia; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N; Cloudy, wind E; T-storm, wind S; Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Dentaid ..	u	87	50	0
Grafton ..	c	101	.	0
Inverell ..	u	89	63	0
Bourke ..	b	91	56	0
Narrandri ..	g	99	67	0
Armidale .	u	88	45	0
Gunnedah	..	..	..	.
Tamworth	..	..	..	..
P. Macqrie	c	74	61	0
Murr'undi	b	77	55	0
Cassilis ..	b	83	54	0
Mus'brook	b	90	58	0
Dubbo ..	b	82	60	0
Mudgee ..	b	85	..	0
Maitland..	b	76	48	0
Newcastle	b	80	59	0·02
Orange ..	b	71	44	0
Bathurst..	b	72	40	0
Mt Victoria	b	75	42	0
Forbes ..	b	82	61	0
Blacktown.	c	87	53	0
SYDNEY ..	c	68	57	0
Wentw'th.	.	..	..	..
Young ..	b	70	55	0
Woll'gong	b	70	57	0
Moss Vale	u	71	46	0
Euston ..	g	77	55	0
Goulburn..	b	75	37	0
Wagga ..	..	..	..	..
Cape Geo.	b	73	56	0
Queanb'an	b	74	39	0
Deniliquin	b	74	45	0
Albury ..	b	73	37	0
Kolalla ..	b	74	46	0
Cooma ..	g	79	45	0
Eden	b	69	56	0
Gabo Isld.	g	66	49	0



WEATHER MAP.

23 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·785.

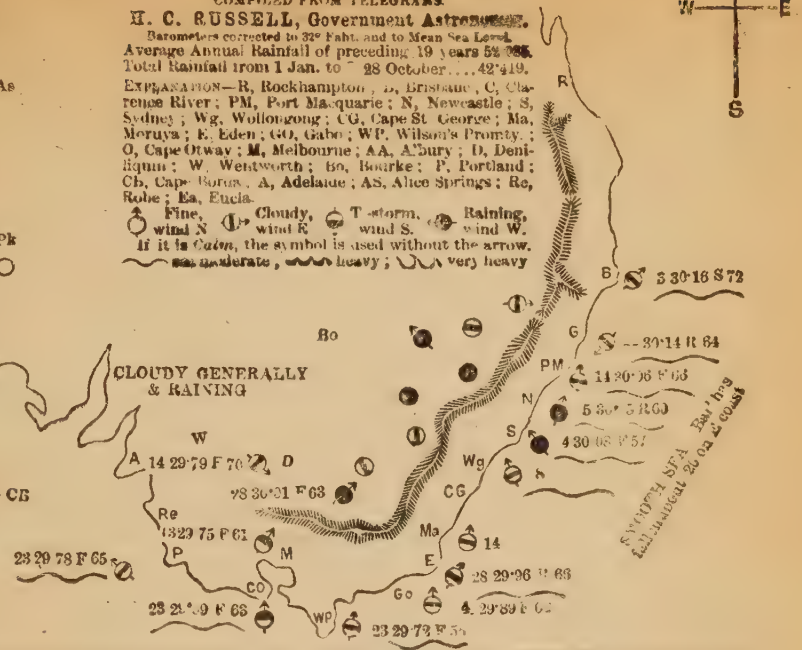
Total Rainfall from 1 Jan. to 28 October....42·419.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; Cb, Cape Byron; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N; Cloudy, wind E; T-storm, wind S; Raining, wind W. If it is *Calm*, the symbol is used without the arrow.

moderate, heavy; very heavy

Stations	Weather	Max	Min	Rain
Rockhampton	u	82	45	0
Grafton ..	r	88	..	0
Invercil ..	c	71	56	0·15
Bourke ..	..	..	..	..
Narrabri ..	r	82	59	1·65
Armidale ..	r	78	50	0·72
Gunnedah	r	76	56	1·45
Tamworth	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	r	74	50	0
Cassilis ..	r	63	54	0·61
Mus'brook	r	81	55	0·37
Dubbo ..	..	..	..	..
Mudgee ..	p	84	..	0·42
Maitland..	r	72	58	0·1
Newcastle	r	67	56	0
Orange ..	r	63	49	0·35
Bathurst..	r	72	46	0·51
Mt Victoria	p	72	41	0·85
Forbes ..	..	..	..	..
Blacktown.	r	62	53	0·27
Ea				
SYDNEY ..	r	66	55	0·40
Wentw'th.	..	..	..	..
Young ..	..	..	..	..
Woll'gong	u	63	54	0
Moss Vale	u	56	41	0
Euston ..	..	..	..	..
Goulburn.	u	56	48	0
Wagga ..	..	..	..	..
Cape Geo.	..	..	..	..
Queanb'an	c	76	49	0
Deniliquin	..	..	..	..
Albury ..	r	72	45	0
Bodalla ..	c	68	49	0
Cooma ..	c	61	45	0
Eden	c	66	54	0
Gabo Isld.	c	64	55	0



WEATHER MAP.

29 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 29 October....42·939.

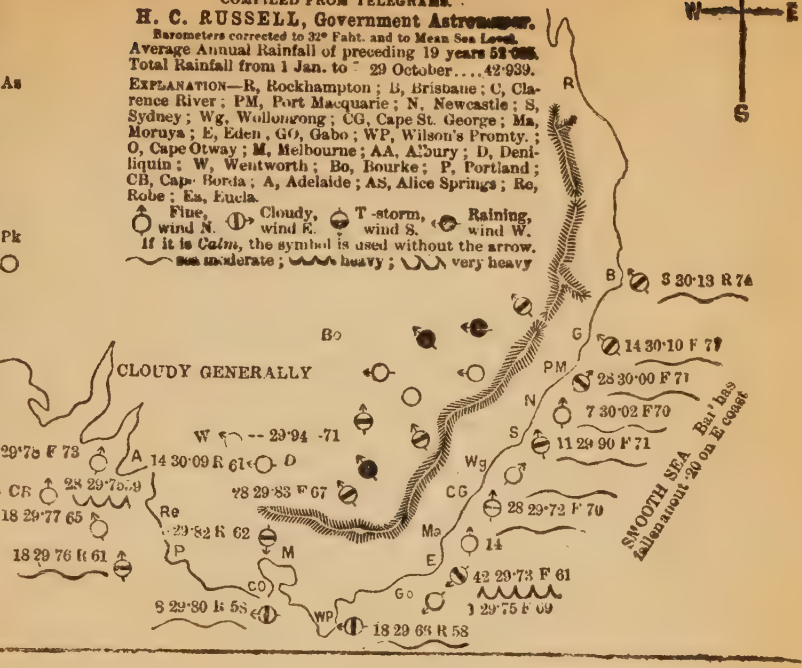
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden, GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Eu, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	c	70	40	0
Grafton	b	99	..	0
Inverell	r	79	60	0·02
Bourke	..	..	..	..
Narrabri	r	85	59	0
Armidale	c	72	50	0·30
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	u	72	64	0·34
Murr'undi	u	69	56	0·10
Cassilis	u	73	56	0
Mus'brook	b	77	59	0·11
Dubbo	b	80	52	0·27
Mudgee	b	72	..	0·50
Maitland	b	73	54	0·34
Newcastle	b	72	60	0·30
Orange	b	73	51	0·95
Bathurst	b	68	53	0·71
Mt Victoria	b	70	50	0·22
Forbes	b	72	54	0·98
Blacktown	b	72	57	0·63
SYDNEY	c	72	57	0·52
Wentw'th.	b	90	52	0
Young	c	75	50	0·85
Woll'gong	b	71	61	0
Moss Vale	b	70	54	0·28
Euston	b	94	55	0
Goulburn	b	72	53	0·31
Wagga	..	..	..	..
Cape Geo.	..	..	..	..
Queanb'an	c	66	50	0·30
Deniliquin	b	80	48	0
Albury	b	70	50	0
Bodalla	b	78	52	0·65
Cooma	p	72	51	0·68
Eden	m	68	59	0·08
Gabo Isld.	b	70	52	0·27



WEATHER MAP.

30 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 30 October....42·939.

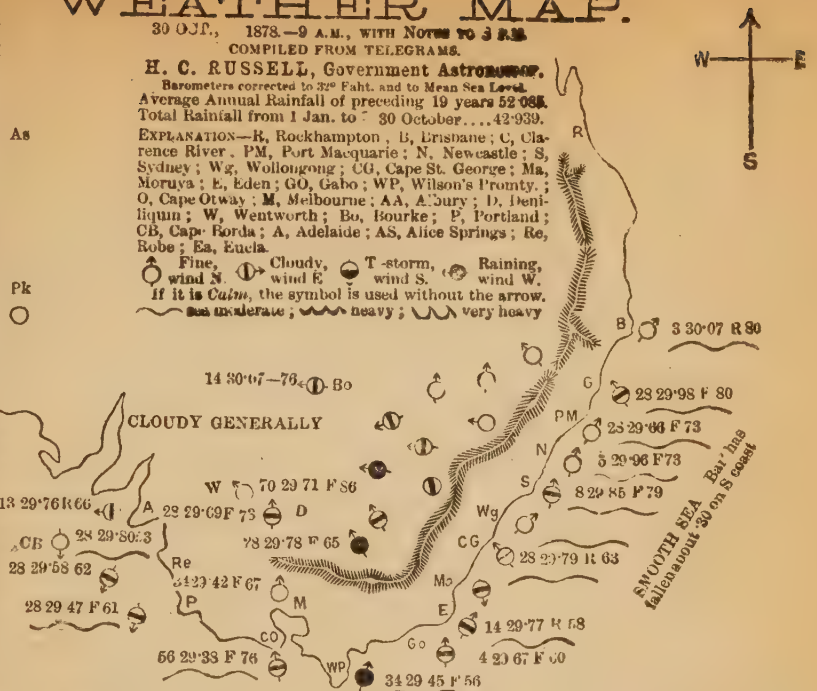
EXPLANATION—R, Rockhampton, B, Brisbane; C, Clarence River, PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	b	81	45	0
Grafton ..	b	95	.	0
Inverell ..	b	80	57	0
Bourke ..	u	89	73	0
Narranri ..	b	85	65	0
Armidale .	n	78	51	0
Gunnedah	c	82	61	0
Tamworth	..	..	..	..
P. Macqrie	m	77	64	0
Murr'undi	u	78	64	0
Cassilis ..	b	85	62	0
Mus'brook	b	87	64	0
Dubbo ..	b	83	66	0
Mudgee ..	b	83	..	0·05
Maitland..	b	86	55	0
Newcastle	b	90	64	0
Orange ..	u	76	57	0
Bathurst..	u	78	55	0
MtVictoria	u	75	59	0
Forbes ..	u	78	57	0
Blacktowr.	b	89	64	0
SYDNEY ..	c	80	63	0
Wentw'th.	b	95	70	0·05
Young ..	r	77	64	0·04
Woll'gong	m	83	65	0
Moss Vale	m	79	59	0
Euston ..	c	92	61	0
Goulburn.	u	80	57	0
Wagga ..	c	84		0·35
Cape Geo.	f	89	58	0
Queanb'an	c	79	64	0
Deniliquin	u	82	54	0·21
Albury ..	r	81	53	0
Bodalla ..	u	84	47	0
Cooma ..	c	71	47	0
Eden	u	75	52	0
Gabo Isld.	u	76	55	0



WEATHER MAP.

31 OCT., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·283.

Total Rainfall from 1 Jan. to 31 October....43·224.

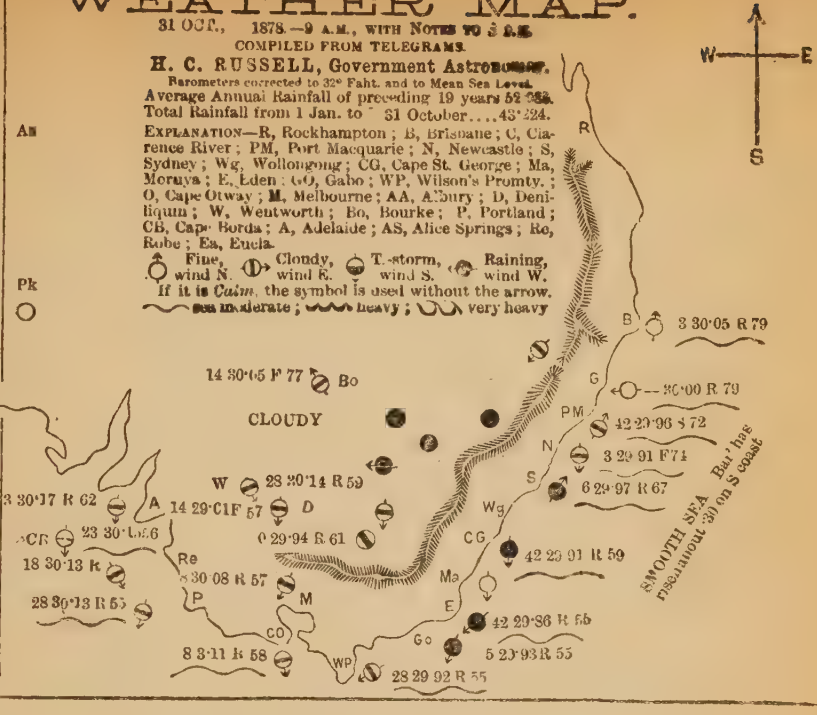
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	c	82	55	0
Grafton ..	b	96	..	0
Inverell ..	c	86	61	0
Bourke ..	u	94	72	0
Narrabri ..	u	94	74	0
Armidale .	b	79	52	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	c	77	66	0
Murr'undi	u	83	67	0
Cassilis ..	p	92	37	0
Mus'brook	b	97	69	0
Dubbo ..	r	85	67	0
Mudgee ..	r	85	..	2·20
Maitland..	b	93	71	0
Newcastle	b	89	67	0
Orange ..	r	76	59	0·38
Bathurst..	r	77	59	0·13
Mt Victoria	..	..	..	..
Forbes ..	r	76	55	0
Blacktown	r	88	67	0·09
SYDNEY ..	r	87	66	0·29
Wentw'th.	u	90	51	0
Young ..	r	68	51	1.95
Woll'gong	..	..	..	..
Moss Vale	r	76	60	0·14
Euston ..	b	91	60	0
Goulburn.	r	75	57	0·14
Wagga ..	..	..	..	..
Cape Geo.	r	81	58	0·14
Queanb'an	c	67	57	0·41
Deniliquin	u	81	50	0
Albury ..	u	87	56	0·53
Bodalla ..	u	80	55	0
Cooma ..	c	69	57	0·11
Eden	p	77	54	0·11
Gabo Isld.	p	75	54	0·77



WEATHER MAP.

2 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·035.

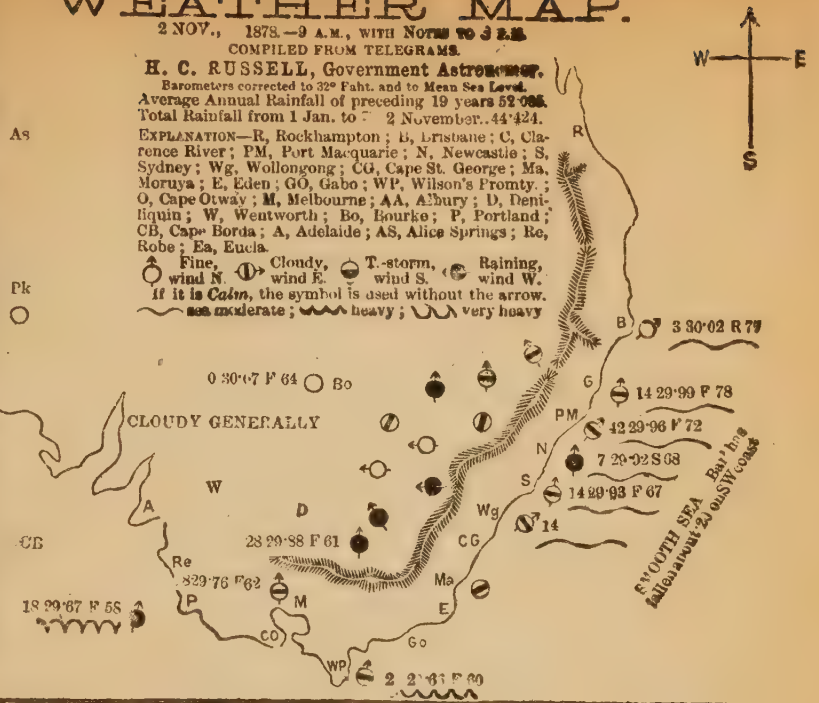
Total Rainfall from 1 Jan. to 2 November..44·424.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



Stations	Weather	Max	Min	Rain
Rockhampton	g	83	56	0
Brisbane	u	93	.	0·46
Cleverell	g	85	66	0
Bourke	b	78	57	0·10
Darraroi	r	82	64	1·70
Armidale	u	78	57	0·06
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	c	74	68	0·13
Murr'undi	r	73	59	1·40
Cassilis	..	..	..	..
Mus'brook	r	74	62	1·10
Dubbo	o	80	56	1·56
Mudgee	u	68	..	1·22
Maitland	r	73	66	0·40
Newcastle	r	81	63	0·41
Orange	c	62	52	1·70
Bathurst	b	63	55	0·95
Mt Victoria	..	..	..	..
Forbes	u	76	60	0·62
Macktown	c	67	58	0·70
SYDNEY	c	67	58	0·45
Wentw'th.	..	..	..	..
Young	c	57	50	0·8
Woll'gong	c	66	58	0·65
Moss Vale	c	65	51	0
Euston	..	..	..	..
Goulburn	b	63	54	0·95
Tagga	..	.	.	..
Cape Geo.	..	..	..	..
Queanb'an	p	63	52	1·58
Deniliquin	..	..	..	..
Albury	p	70	52	1·66
Bodalla	..	67	50	2·35
Cooma	q	59	43	1·40
Eden	..	..	..	..
Gabo Isld.	..	..	..	..

WEATHER MAP.

4 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·035.

Total Rainfall from 1 Jan. to 4 November..44·440.

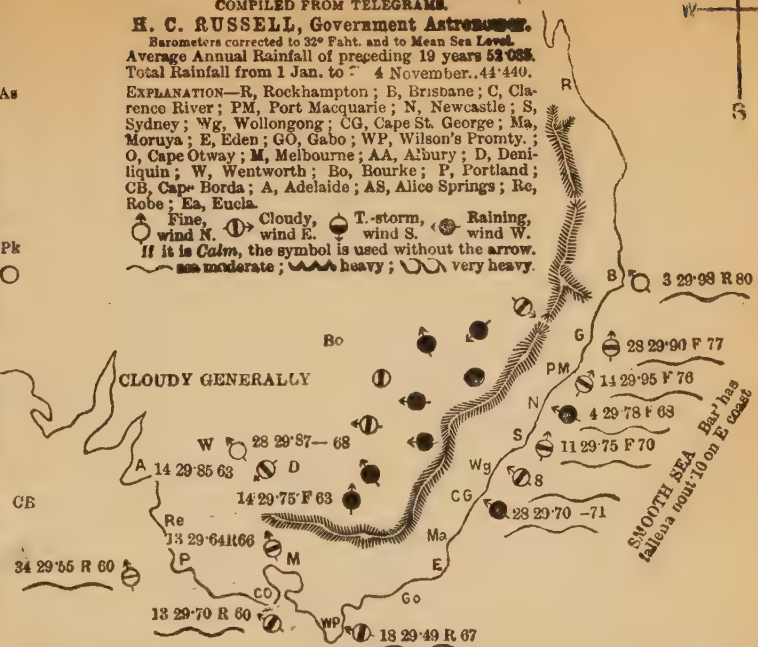
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Rc, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterf'd	u	70	45	0·19
Grafton ..	b	99	.	0
Inverell ..	r	87	70	0·08
Bourke ..	..	..	..	..
Narrabri ..	r	89	65	1·78
Armidale .	u	79	38	0·03
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	u	79	68	0
Murr'undi	r	81	60	1·25
Cassilis ..	r	91	67	0·65
Mus'brook	r	97	53	0·88
Dubbo ..	u	82	52	0
Mudgee ..	r	84	..	0·44
Maitland..	r	88	66	1·10
Newcastle	r	82	68	0·50
Orange ..	r	72	61	0·95
Bathurst..	p	76	47	0·47
MtVictoria	u	81	50	1·32
Forbes ..	u	72	58	0·23
Blacktowr	c	88	70	0·01
SYDNEY ..	g	78	70	0·02
Wentw'th.	b	96	51	0·56
Young ..	u	75	55	0.32
Woll'gong	c	75	61	0
Moss Vale	c	79	63	0·30
Euston ..	u	80	52	0·03
Goulburn.	u	81	61	0·58
Wagga ..	u	84	.	0 86
Cape Geo.	p	71	63	0·07
Queanb'an	p	79	49	0
Deniliquin	b	81	51	0
Albury ..	r	82	47	0·85
Bodalla ..	..	..	..	..
Cooma ..	p	70	59	0
Eden	..	..	..	..
Gabo Isld.	..	..	..	.



WEATHER MAP.

5 NOV., 1878.—9 A.M., WITH NOTES TO 5 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 5 November..44·692.

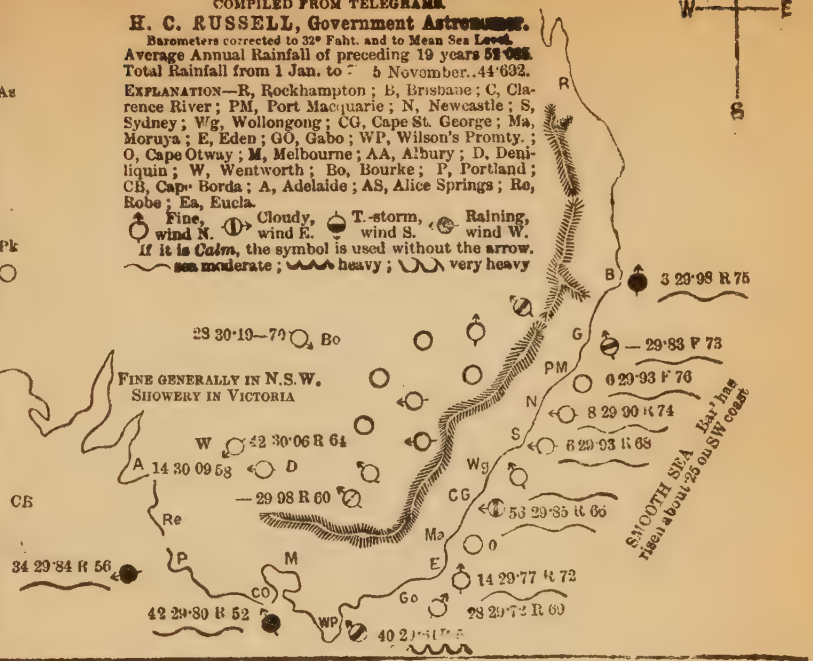
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Ro, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min.	Rain	
Tenterfield	c	80	46	0.10	
Grafton ..	p	99	.	0·19	
Inverell ..	b	79	64	0·53	
Bourke ..	b	90	60	0	
Narrabri ..	b	74	64	0·64	
Armidale .	b	77	36	0·50	As
Gunnedah	b	81	61	0·22	
Tamworth	..	..	..	..	
P. Macqrie	b	79	69	0·14	
Murr'undi	b	76	59	0·37	
Cassilis ..	b	79	58	0	
Mus'brook	b	84	63	0·30	
Dubbo ..	b	77	59	0·38	
Mudgee ..	b	78	..	0 25	
Maitland..	b	86	67	0·11	
Newcastle	b	77	65	0·13	Pk
Orange ..	b	82	47	0·24	
Bathurst..	b	71	48	0	
Mt Victoria	b	72	45	0·98	
Forbes ..	b	75	59	0	
Blacktown	b	85	59	0·16	
					Ea
SYDNEY ..	b	81	63	0·25	
Wentw'th.	b	74	47	0	
Young ..	b	72	49	0	
Woll'gong	b	74	60	0	
Moss Vale	b	73	50	0·07	
Euston ..	b	75	47	0	
Goulburn..	b	76	46	0	
Wagga ..	..	.		..	
Cape Geo.	b	76	57	0	CB
Queanb'an	b	76	47	0	
Deniliquin	b	75	44	0	
Albury ..	c	71	42	0·13	
Bodalla ..	b	88	52	0	
Cooma ..	b	77	42	0·02	
Eden	b	80	57	0	
Gabo Isld.	b	75	57	3	



WEATHER MAP.

6 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

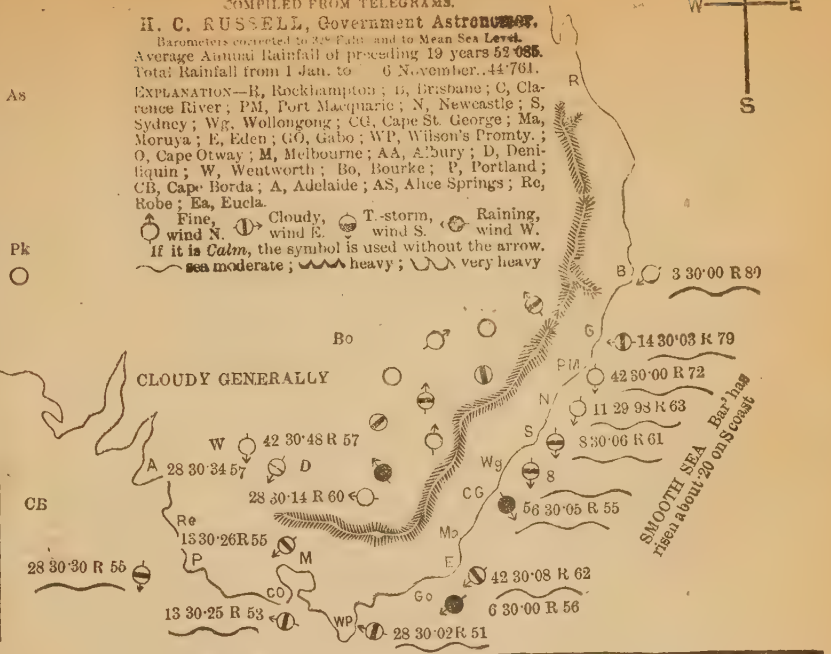
Total Rainfall from 1 Jan. to 6 November..44·761.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



Stations	Weather	Max	Min	Rain
Toowoomba	c	75	55	0
Grafton	b	90	..	0
Inverell	b	80	50	0
Bourke	..	..	..	..
Narrandera	b	91	59	0
Armidale	b	76	37	0
Gunnedah	c	84	50	0
Tamworth	..	..	..	..
P. Macquarie	b	78	68	0
Murr'undi	b	75	49	0
Cassilis	p	81	53	0
Mus'brook	c	90	55	0
Dubbo	c	75	57	0·09
Mudgee	u	75	..	0·12
Maitland	u	82	58	0
Newcastle	u	83	60	0
Orange	u	67	47	0·15
Bathurst	q	68	48	0
MtVictoria	b	66	44	0
Forbes	b	75	59	0
Blacktown	c	80	53	0·10
SYDNEY	u	78	58	0·07
Wentw'th.	b	72	44	0·14
Young	c	71	52	0
Woll'gong	c	70	57	0
Moss Vale	u	68	49	0
Euston	b	76	42	0·37
Goulburn	u	68	43	0
Wagga	b	84	..	0
Cape Geo.	p	79	54	0·12
Queanb'an	b	69	45	0
Deniliquin	b	75	40	0
Albury	b	72	46	0
Bodalla	u	80	47	0
Cooma	p	68	47	0·02
Eden	b	71	54	0
Gabo Isld.	r	76	54	0·11

WEATHER MAP.

7 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 7 November..45·147.

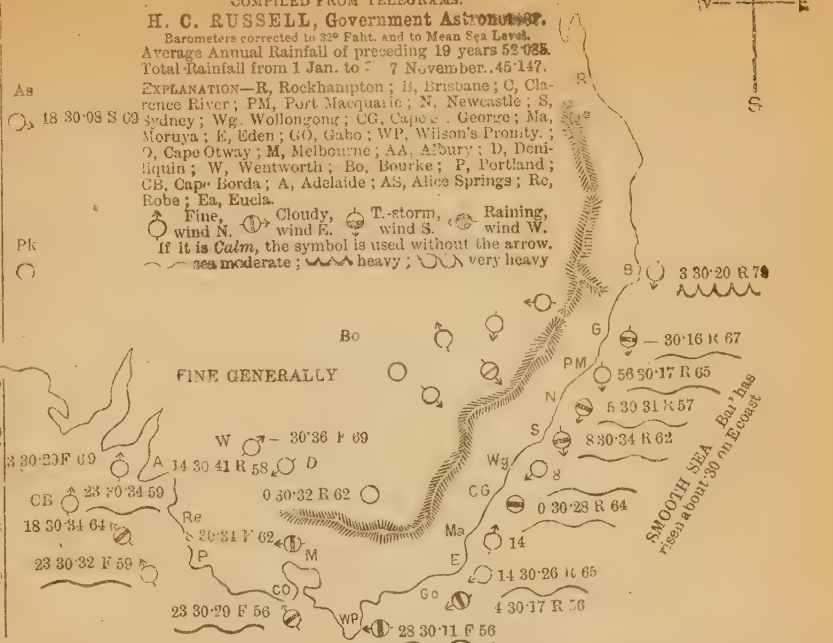
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	Weather	Max	Min	Rain
Gladstone	b	70	40	0
Grafton	b	93	..	0
Inverell	b	78	49	0
Bourke	..	..	..	..
Narrabri	b	79	54	0
Armidale	b	76	37	0
Tamworth	c	84	49	0
Tamworth	..	..	..	..
P. Macquarie	b	67	55	0·06
Murrumbidi	a	66	48	0·22
Cassilis	..	..	..	..
Mus'brook	b	77	52	0·42
Dubbo	b	74	52	0
Mudgee	b	71	..	0·20
Maitland	r	6[illegible]	57	0·39
Newcastle	p	78	57	0·59
Orange	b	72	40	0·04
Bathurst	b	62	40	0
Mt Victoria	c	63	43	0·20
Forbes	b	76	61	0
Blacktown	c	69	42	0·47
SYDNEY	c	64	55	0·35
Wentw'th.	b	71	46	0
Young	..	..	..	..
Woll'gong	b	68	54	1·00
Moss Vale	c	65	45	0·17
Euston	b	75	47	0
Goulburn	b	65	50	0·37
Wagga	..	..	..	..
Cape Geo.	b	64	59	0
Queanb'an	b	72	47	0·05
Deniliquin	b	68	39	0
Albury	b	69	40	0
Bodalla	b	68	45	0·60
Cooma	b	68	37	0
Eden	b	67	62	0
Gabo Isld.	u	59	52	0



WEATHER MAP.

8 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

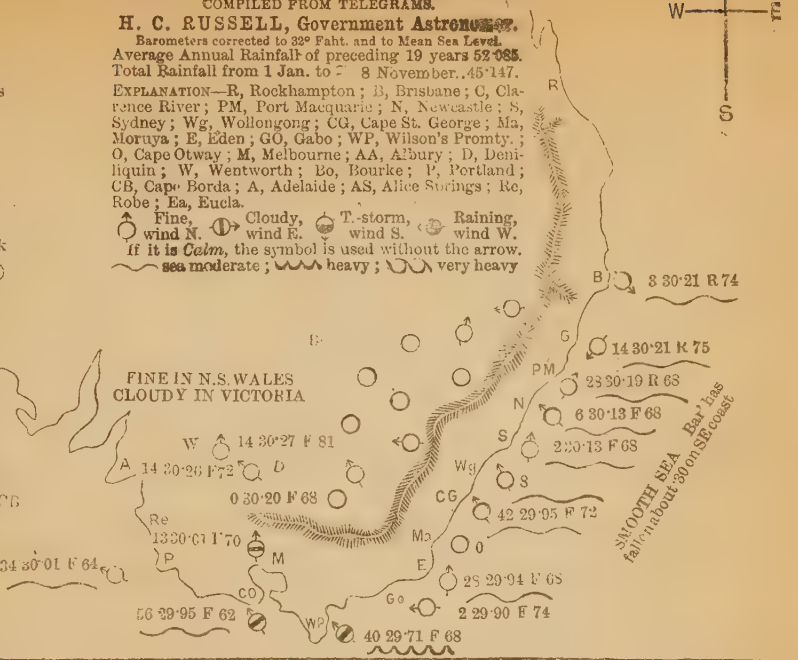
Total Rainfall from 1 Jan. to 8 November..45·147.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



Stations	Weather	Max.	Min.	Rain	
Rockhampton	b	73	43	0	
Clarence R.	b	91	..	0	
Cleverell ..	b	79	48	0	
Bourke ..	..	..	..	..	
Charlarabri ..	b	88	54	0	
Armidale ..	b	78	53	0	As
Tamworth ..	b	92	47	0	
Wentworth	..	..	..	..	
Port Macquarie	b	69	51	0	
Burr'undi	b	69	47	0	
Dissilis ..	b	74	46	0	
Cous'brook	b	82	52	0	
Dubbo ..	b	77	57	0	
Eudgee ..	b	77	..	0	
Maitland..	.	..	..	..	
Newcastle	b	71	52	0	Pk
Orange ..	b	94	45	0	
Bathurst..	b	71	45	0	
Victoria	b	73	47	0	
Forbes ..	b	76	60	0	
Blacktown	b	81	50	0	
SYDNEY ..	b	68	55	0	
Wentw'th.	b	82	53	0	
Young ..	b	70	41	0	
Woll'gong	b	71	55	0	
Moss Vale	b	74	50	0	
Huston ..	b	82	52	0	
Goulburn.	b	73	49	0	
Tagga ..	b	93	..	0	
Cape Geo.	b	72	53	0	
Queanb'an	b	76	49	0	
Deniliquin	b	77	48	0	
Albury ..	b	76	46	0	
Bodalla ..	b	73	44	0	
Moama ..	b	79	44	0	
Eden	b	69	52	0	
Gabo Isld.	b	75	53	0	

WEATHER MAP.

9 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 9 November..45·147.

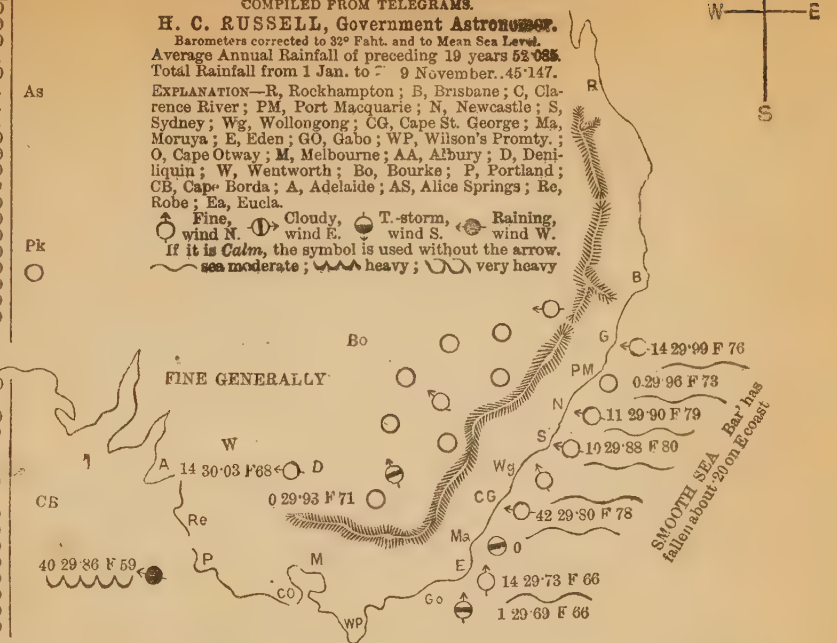
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterf'd.	b	70	42	0
Grafton ..	b	92	..	0
Inverell ..	b	83	51	0
Bourke ..	..	..	..	..
Narrabri ..	b	89	58	0
Armidale .	..	..	..	..
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	74	55	0
Murr'undi	b	78	47	0
Cassilis ..	b	89	45	0
Mus'brook	b	92	58	0
Dubbo ..	b	79	60	0
Mudgee ..	b	82	..	0
Maitland..	b	83	53	0
Newcastle	b	76	65	0
Orange ..	b	94	55	0
Bathurst..	b	77	50	0
MtVictoria	b	73	58	0
Forbes ..	b	78	61	0
Blacktown.	..	.	..	..
SYDNEY ..	b	83	66	0
Wentw'th.	..	..	..	..
Young ..	b	75	57	0
Woll'gong	b	82	63	0
Moss Vale	..	..	..	..
Euston ..	..	..	..	..
Goulburn.	b	77	59	0
Wagga ..	..	..	.	..
Cape Geo.	b	90	62	0
Queanb'an	b	80	50	0
Deniliquin	b	88	48	0
Albury ..	b	83	49	0
Bodalla ..	c	68	51	0
Cooma ..	c	83	46	0
Eden	b	78	52	0
Gabo Isld.	m	83	59	0



WEATHER MAP.

11 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

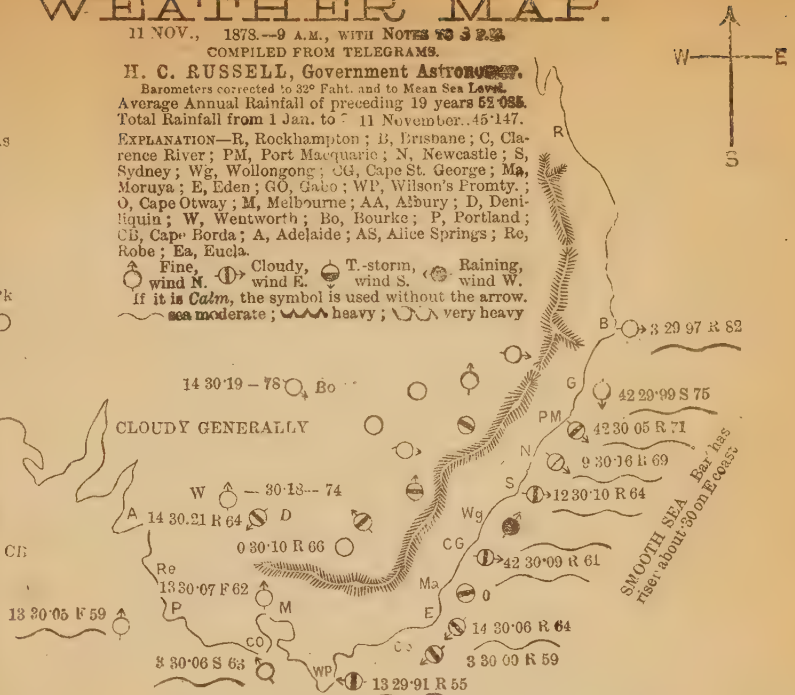
Total Rainfall from 1 Jan. to 11 November..45·147.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy



Stations	W'th'r	Max	Min	Rain	
Tenterfield	b	87	45	0	
Grafton ..	b	103	..	0	
Inverell ..	b	89	54	0	
Bourke ..	b	97	..	0	
Narrabri ..	b	98	64	0	
Armidale .	b	80	41	0	As
Gunnedah	b	99	56	0	
Tamworth	..	..	..	..	
P. Macqrie	c	85	67	0	
Murr'undi	o	86	56	0	
Cassilis ..	..	..	..	..	
Mus'brook	u	100	64	0	
Dubbo ..	b	82	60	0	
Mudgee ..	u	90	..	0	
Maitland..	b	90	64	0	
Newcastle	u	78	63	0	Pk
Orange ..	b	89	51	0	
Bathurst..	b	81	46	0	
MtVictoria	c	80	47	0	
Forbes ..	b	87	65	0	
Blacktown	c	75	60	0	
		Ea			
SYDNEY ..	u	70	62	0	
Wentw'th.	b	72	33	0	
Young ..	..	..	..	..	
Woll'gong	r	88	60	0·45	
Moss Vale	c	78	49	0	
Euston ..	o	82	50	0	
Goulburn.	b	79	50	0	
Wagga ..	..	..	..	..	
Cape Geo.	c	64	57	0	CB
Queanb'an	c	85	52	0	
Deniliquin	b	93	45	0	
Albury ..	b	86	46	0	
Bedalla ..	c	65	55	0·80	
Cooma ..	c	84	48	0	
Eden	b	70	54	0	
Gabo Isld.	m	61	53	0	

WEATHER MAP.

12 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 12 November..45·147.

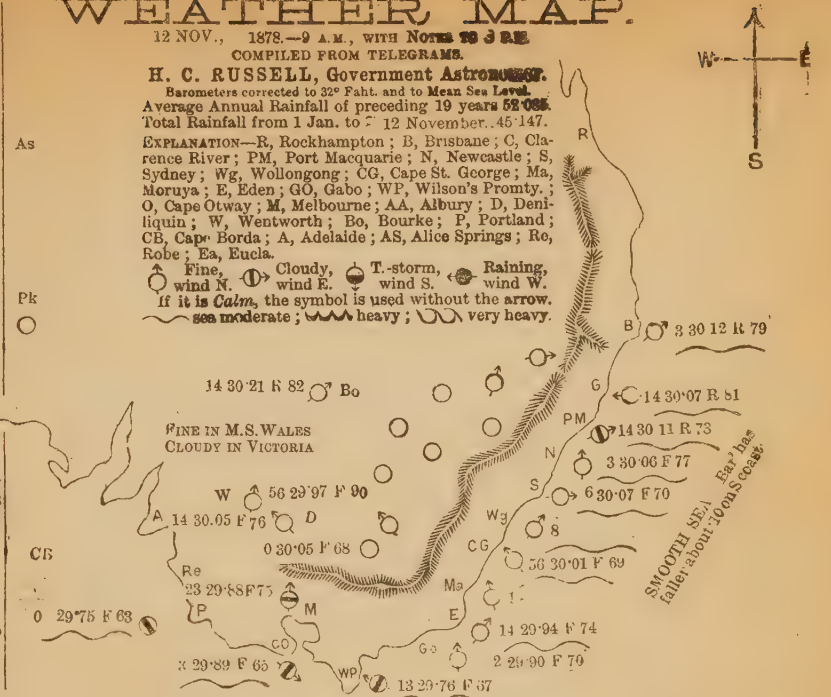
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'thr	Max	Min	Rain
Tenterf'd	b	90	55	0
Grafton ..	c	102	..	0
Inverell ..	b	91	59	0
Bourke ..	b	..	63	0
Narrabri ..	b	98	61	0
Armidale .	b	79	40	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	m	76	61	0
Murr'undi	b	80	56	0
Cassilis ..	..	..	..	..
Mus'brook	b	83	48	0
Dubbo ..	b	82	58	0
Mudgee ..	b	86	..	0
Maitland..	b	97	62	0
Newcastle	b	80	62	0
Orange ..	b	87	48	0
Bathurst..	b	81	49	0
Mt Victoria	b	76	52	0
Forbes ..	b	80	61	0
Blacktown.	b	76	56	0
SYDNEY ..	b	71	60	0
Wentw'th.	b	92	60	0
Young ..	b	75	53	0
Woll'gong	b	69	59	0·07
Moss Vale	b	69	52	0·06
Euston ..	b	94	55	0
Goulburn.	b	73	50	0
Wagga ..	..	..	..	..
Cape Geo.	b	70	51	0
Queanb'an	..	..	..	..
Deniliquin	b	86	52	0
Albury ..	b	80	47	0
Bodalla ..	b	67	45	0·55
Cooma ..	b	74	40	0
Eden	b	69	54	0
Gabo Isld.	b	73	55	0



WEATHER MAP.

13 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 13 November..45·148.

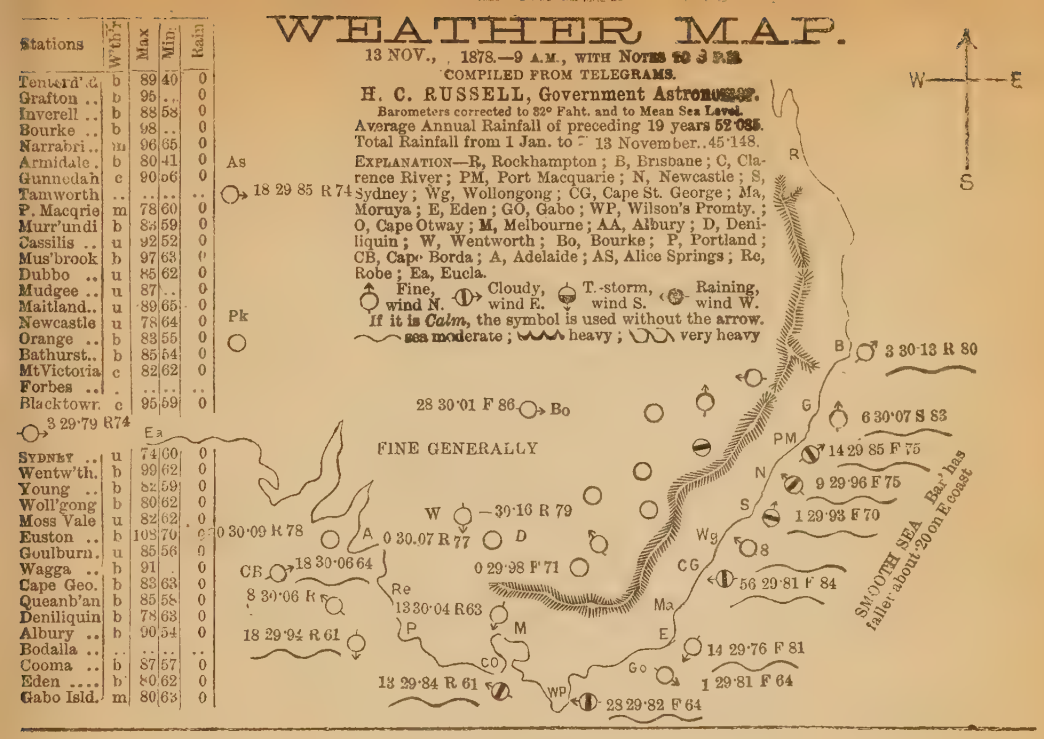
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	Wind	Max	Min.	Rain
Tenterf'd	b	89	40	0
Grafton ..	b	95	..	0
Inverell ..	b	88	58	0
Bourke ..	b	98	..	0
Narrabri ..	m	96	65	0
Armidale .	b	80	41	0
Gunnedah	c	90	56	0
Tamworth	..	..	..	..
P. Macqrie	m	78	60	0
Murr'undi	b	82	59	0
Cassilis ..	u	92	52	0
Mus'brook	b	97	63	0
Dubbo ..	u	85	62	0
Mudgee ..	u	87	..	0
Maitland..	u	89	65	0
Newcastle	u	78	64	0
Orange ..	b	83	55	0
Bathurst..	b	85	54	0
Mt Victoria	c	82	62	0
Forbes ..	.	..	..	..
Blacktown.	c	95	59	0
SYDNEY ..	u	74	60	0
Wentw'th.	b	99	62	0
Young ..	b	82	59	0
Woll'gong	b	80	62	0
Moss Vale	u	82	62	0
Euston ..	b	108	70	0
Goulburn.	u	85	56	0
Wagga ..	b	91	.	0
Cape Geo.	b	83	63	0
Queanb'an	b	85	58	0
Deniliquin	b	78	63	0
Albury ..	b	90	54	0
Bodalla ..	..	..	..	..
Cooma ..	b	87	57	0
Eden	b	80	62	0
Gabo Isld.	m	80	63	0



WEATHER MAP.

14 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·086.

Total Rainfall from 1 Jan. to 14 November..45·148.

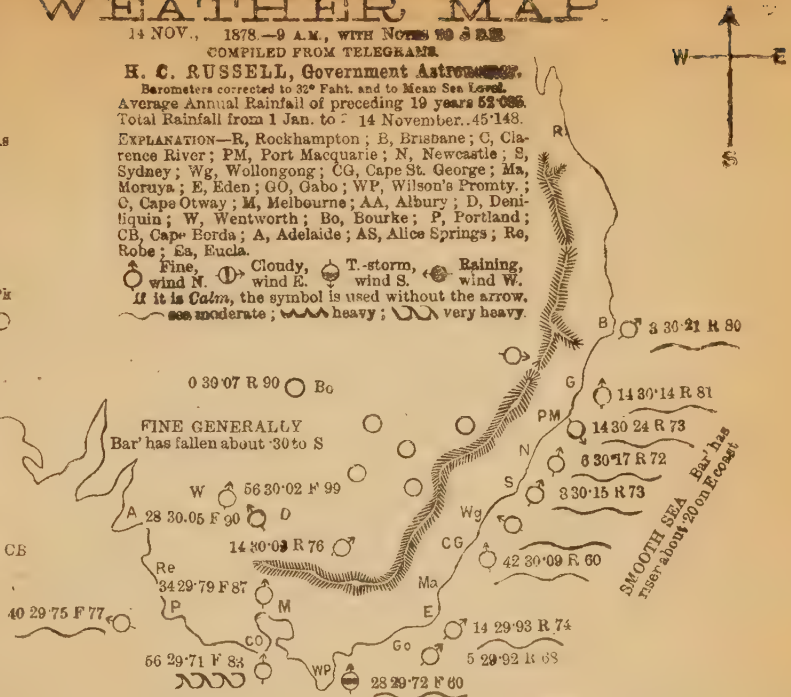
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; G, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterf'd	b	87	44	0
Grafton	b	100	..	0
Inverell	..	..	..	..
Bourke	b	106	..	0
Narrabri	b	105	68	0
Armidale	b	84	40	0
Gunnedah	.	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	79	67	0
Murr'undi	b	88	59	0
Cassilis	..	..	..	..
Mus'brook	b	106	68	0
Dubbo	b	89	66	0
Mudgee	b	90	..	0
Maitland	b	96	63	0
Newcastle	b	99	61	0
Orange	.	..	..	..
Bathurst	b	91	53	0
Mt Victoria	b	90	54	0
Forbes	b	90	68	0
Blackto wr	b	79	53	0
SYDNEY	b	91	59	0
Wentw'th.	b	102	72	0
Young	b	87	57	0·06
Woll'gong	b	88	68	0
Moss Vale	b	87	51	0
Euston	b	108	73	0
Goulburn	b	88	47	0
Wagga	b	99	.	0
Cape Geo.	b	72	52	0
Queanb'an	b	92	54	0
Deniliquin	b	96	64	0
Albury	b	92	53	0
Bodalla	..	..	..	..
Cooma	b	92	43	0
Eden	b	80	58	0
Gabo Isld.	b	70	56	0



WEATHER MAP.

15 NOV., 1878.—9 A.M., WITH Notes 10 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·035.

Total Rainfall from 1 Jan. to 15 November..45·148.

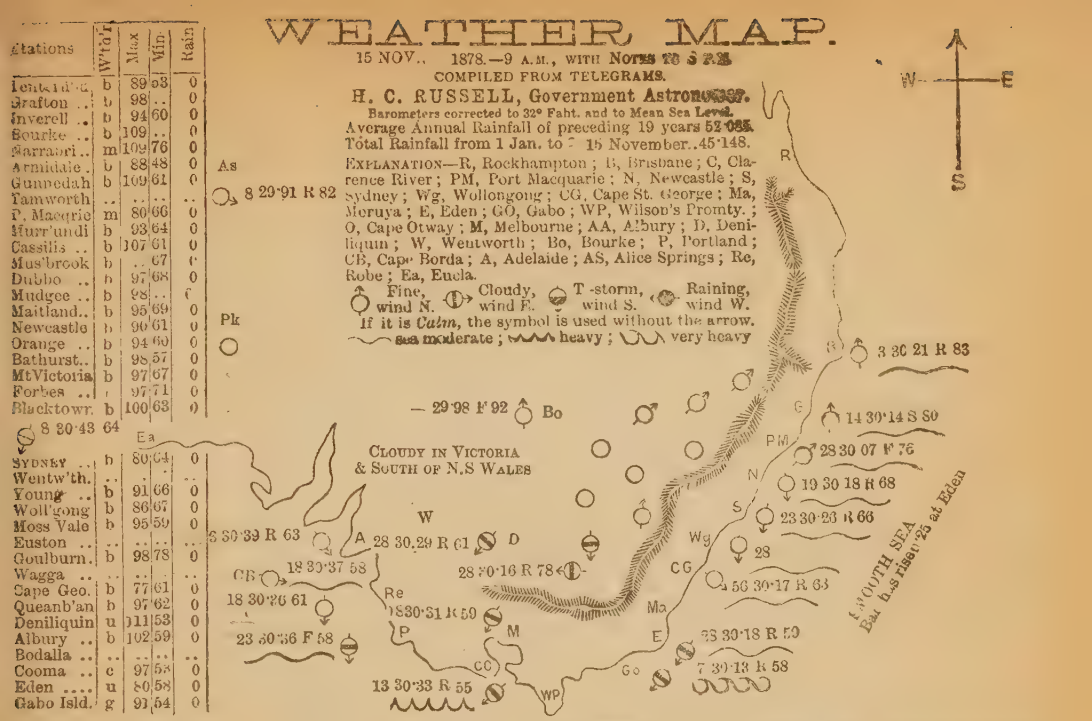
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	Wthr	Max	Min	Rain
Tenterfield	b	89	53	0
Grafton ..	b	98	..	0
Inverell ..	b	94	60	0
Bourke ..	b	109	..	0
Narrabri ..	m	109	76	0
Armidale ..	b	88	48	0
Gunnedah	b	109	61	0
Tamworth	..	..	..	..
P. Macqrie	m	80	66	0
Murr'undi	b	93	64	0
Cassilis ..	b	107	61	0
Mus'brook	b	..	67	0
Dubbo ..	b	97	68	0
Mudgee ..	b	98	..	0
Maitland..	b	95	69	0
Newcastle	b	90	61	0
Orange ..	b	94	60	0
Bathurst..	b	98	57	0
MtVictoria	b	97	67	0
Forbes ..	r	97	71	0
Blacktown.	b	100	63	0
SYDNEY ..	b	80	64	0
Wentw'th.	..	..	..	..
Young ..	b	91	66	0
Woll'gong	b	86	67	0
Moss Vale	b	95	59	0
Euston ..	..	..	..	..
Goulburn.	b	98	78	0
Wagga ..	..	..	..	..
Cape Geo.	b	77	61	0
Queanb'an	b	97	62	0
Deniliquin	u	111	53	0
Albury ..	b	102	59	0
Bodalla ..	..	..	..	..
Cooma ..	c	97	53	0
Eden	u	80	58	0
Gabo Isld.	g	91	54	0



WEATHER MAP.

16 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·035.

Total Rainfall from 1 Jan. to 16 November..45·148.

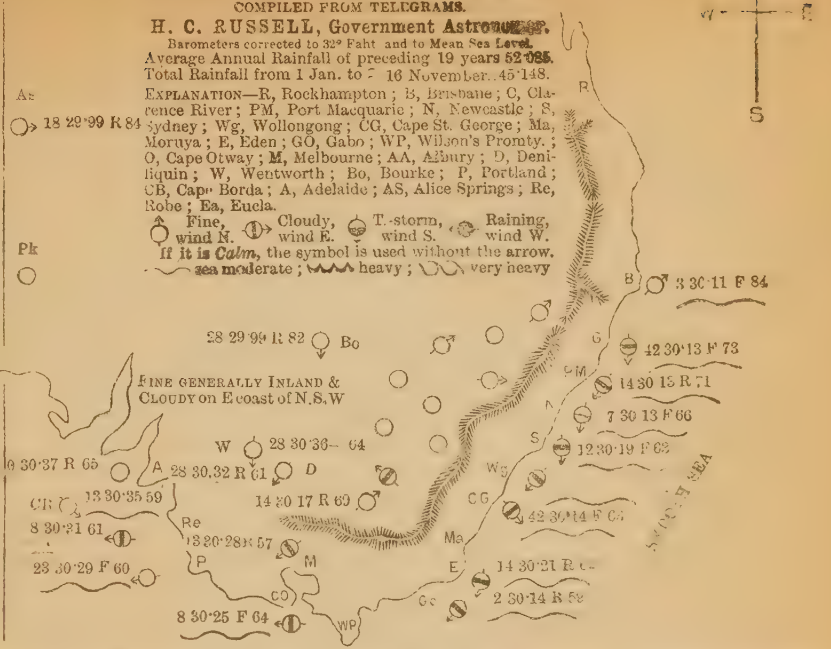
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	Wind	Max	Min	Rain
Toowoomba	b	93	55	0
Grafton	b	100	..	0
Inverell	b	91	63	0
Bourke	b	112	..	0
Narrawri	b	105	70	0
Armidale	b	90	50	0
Gunnedah	..	..	..	.
Tamworth	..	..	..	..
P. Macquarie	c	74	60	0
Murr'undi	b	89	58	0
Cassilis	g	86	59	0
Musbrook	u	90	60	0
Dubbo	b	99	63	0
Mudgee	b	89	..	0
Maitland	g	104	77	0
Newcastle	g	84	61	0
Orange	b	93	54	0
Bathurst	b	93	51	0
Mt Victoria	b	78	47	0
Forbes	b	92	69	0
Blacktown	c	86	55	0
SYDNEY	u	69	59	0
Wentw'th.	b	82	50	0
Young	b	93	56	0
Woll'gong	g	70	58	0
Moss Vale	c	70	51	0
Euston	b	86	50	0
Goulburn	g	72	49	0
Wagga	..	..	..	..
Cape Geo.	b	66	55	0
Queanb'an	b	96	50	0
Deniliquin	b	81	44	0
Albury	b	90	45	0
Bodalla	..	..	..	..
Cooma	g	72	46	0
Eden	b	69	55	0
Gabo Isld.	g	63	55	0



WEATHER MAP.

18 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 18 November..45·148.

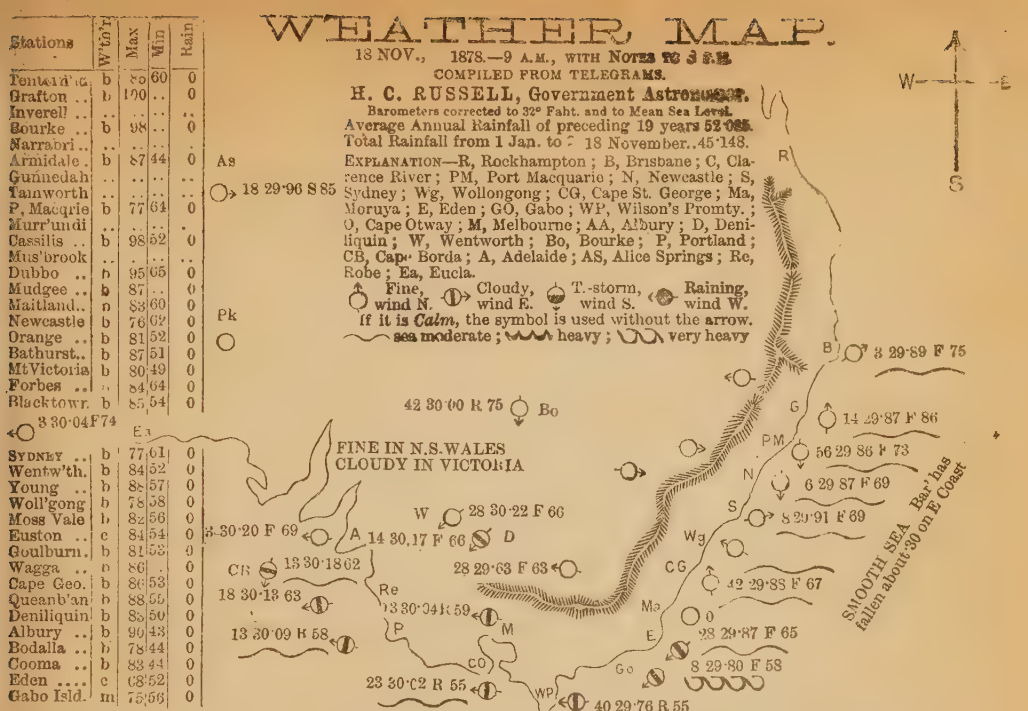
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'ther	Max	Min	Rain
Tenterfield	b	80	60	0
Grafton	b	100	..	0
Inverell	..	..	..	..
Bourke	b	98	..	0
Narrabri	..	..	..	.
Armidale	b	87	44	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	b	77	64	0
Murr'undi	..	..	..	.
Cassilis	b	98	52	0
Mus'brook	..	.	..	..
Dubbo	b	95	65	0
Mudgee	b	87	..	0
Maitland	n	83	60	0
Newcastle	b	76	62	0
Orange	b	81	52	0
Bathurst	b	87	51	0
Mt Victoria	b	80	49	0
Forbes	n	84	64	0
Blacktown	b	85	54	0
SYDNEY	b	77	61	0
Wentw'th.	b	84	52	0
Young	b	85	57	0
Woll'gong	b	78	58	0
Moss Vale	b	82	56	0
Euston	c	84	54	0
Goulburn	b	81	53	0
Wagga	n	86	.	0
Cape Geo.	b	86	53	0
Queanb'an	b	88	55	0
Deniliquin	b	85	50	0
Albury	b	90	43	0
Bodalla	b	78	44	0
Cooma	b	83	44	0
Eden	c	68	52	0
Gabo Isld.	m	75	56	0



WEATHER MAP.

19 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 19 November..45·148.

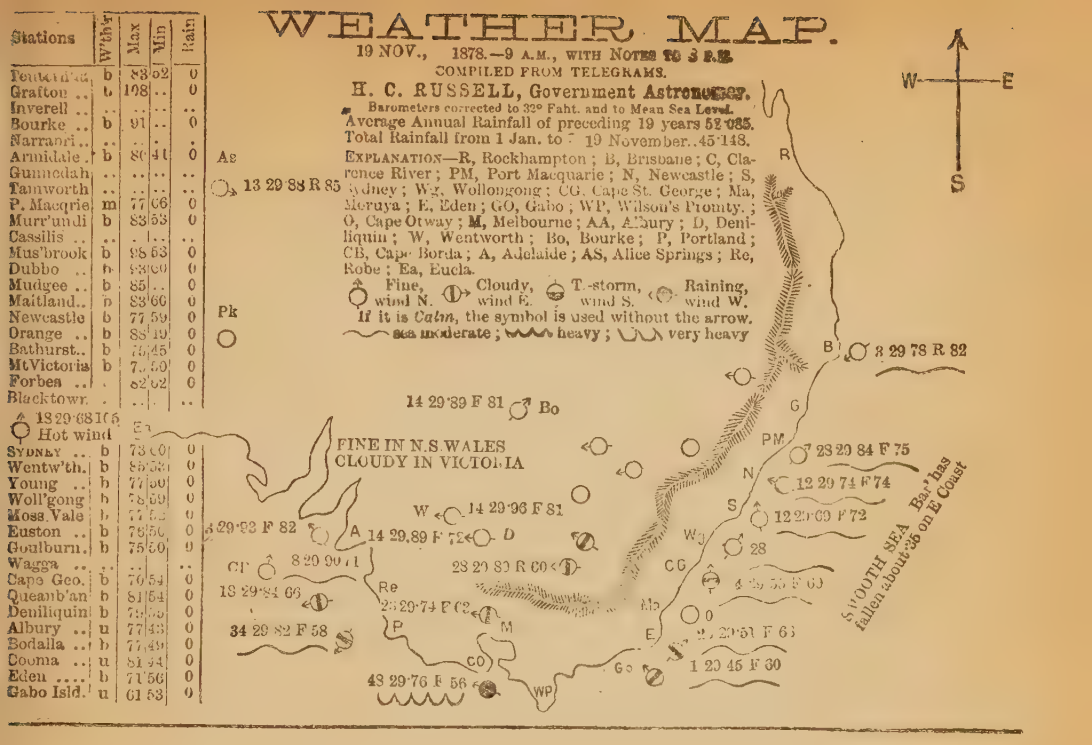
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'ther	Max	Min	Rain
Tenterfield	b	83	52	0
Grafton ..	b	108	..	0
Inverell ..	..	..	..	..
Bourke ..	b	91	..	0
Narraori ..	..	..	..	..
Armidale .	b	80	41	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	m	77	66	0
Murr'undi	b	83	53	0
Cassilis ..	..	..	..	..
Mus'brook	b	98	63	0
Dubbo ..	b	93	60	0
Mudgee ..	b	85	..	0
Maitland..	b	83	66	0
Newcastle	b	77	59	0
Orange ..	b	83	49	0
Bathurst..	b	75	45	0
MtVictoria	b	7..	50	0
Forbes ..	.	82	52	0
Blacktown	.	..	..	..
SYDNEY ...	b	73	60	0
Wentw'th.	b	85	53	0
Young ..	b	77	50	0
Woll'gong	b	78	59	0
Moss Vale	b	77	52	0
Euston ..	b	78	56	0
Goulburn.	b	75	50	0
Wagga ..	..	..	..	..
Cape Geo.	b	76	54	0
Queanb'an	b	81	54	0
Deniliquin	b	78	56	0
Albury ..	u	77	43	0
Bodalla ..	b	77	49	0
Cooma ..	u	81	34	0
Eden	b	71	56	0
Gabo Isld.	u	61	53	0



WEATHER MAP.

20 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·035.

Total Rainfall from 1 Jan. to 20 November..45·148.

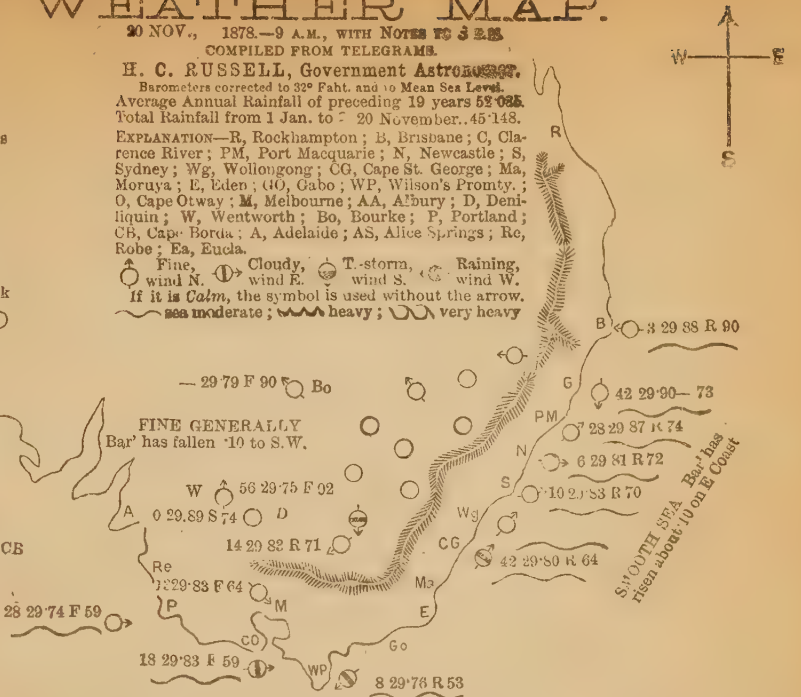
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Rc, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	b	88	43	0
Grafton	b	96	..	0
Inverell	b	84	55	0
Bourke	b	99	..	0
Narrabri	b	95	58	0
Armidale	b	78	38	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	m	79	64	0
Murr'undi	b	84	55	0
Cassilis	..	..	..	..
Mus'brook	b	93	69	0
Dubbo	b	87	54	0
Mudgee	b	86	..	0
Maitland	b	96	63	0
Newcastle	b	92	62	0
Orange	b	95	52	0
Bathurst	b	86	50	0
Mt Victoria	b	77	56	0
Forbes		96	56	0
Blacktown	b	90	56	0
SYDNEY	b	88	59	0
Wentw'th	b	99	53	0
Young	b	82	56	0
Woll'gong	b	86	62	0
Moss Vale	b	77	52	0
Euston	b	98	56	0
Goulburn	b	79	50	0
Wagga	b	86	..	0
Cape Geo.	b	98	57	0
Queanb'an	b	81	52	0
Deniliquin	b	87	58	0
Albury	b	84	46	0
Bodalla	..	..	..	..
Cooma	u	76	40	0
Eden	..	..	..	..
Gabo Isld.	..	..	..	..



WEATHER MAP.

21 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

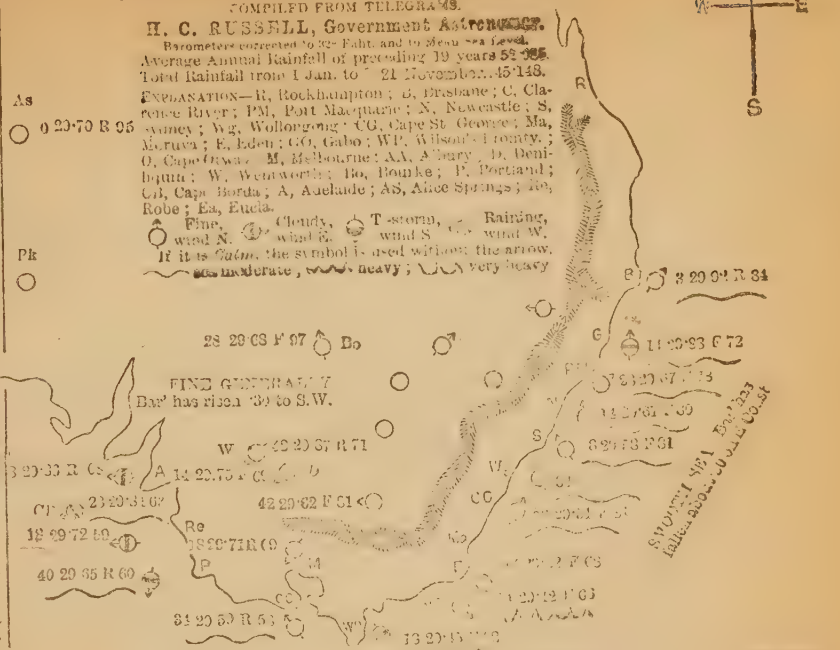
Average Annual Rainfall of preceding 19 years 52·985.

Total Rainfall from 1 Jan. to 21 November..45·148.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promontory; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Ro, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W. If it is *Calm*, the symbol is used without the arrow. moderate; heavy; very heavy

Stations	W'ther	Max	Min	Rain
Rockhampton	b	90	66	0
Grafton	b	98	..	0
Inverell	n	91	61	0
Bourke	b	100	72	0
Narrandera	b	100	69	0
Armidale	b	87	44	0
Gunnedah	b	108	58	0
Tamworth	..	..	..	..
P. Macquarie	m	79	63	0
Morrumburrah	b	91	58	0
Cassilis	b	102	52	0
Muswellbrook	b	100	61	0
Dubbo	b	94	67	0
Mudgee	b	98	..	0
Maitland	n	90	4	0
Newcastle	b	88	62	0
Orange	..	..	..	..
Bathurst	b	90	54	0
Mt Victoria	b	86	55	0
Forbes	..	91	63	0
Blackheath	b	66	0	0
Sydney	b	83	69	0
Wentworth	b	102	60	0
Young	b	87	..	0
Wollongong	b	81	5	0
Moss Vale	b	81	7	0
Euston	b	93	..	0
Goulburn	b	82	52	0
Wagga	..	..	..	..
Cape Geo.	b	82	60	0
Queanbeyan	..	..	..	..
Deniliquin	b	100	55	0
Albury	b	..	..	0
Echuca	..	..	..	..
Cooma	b	89	55	0
Eden	b	72	57	0
Gabo Isl.	b	67	57	0



WEATHER MAP.

22 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 22 November..45·148.

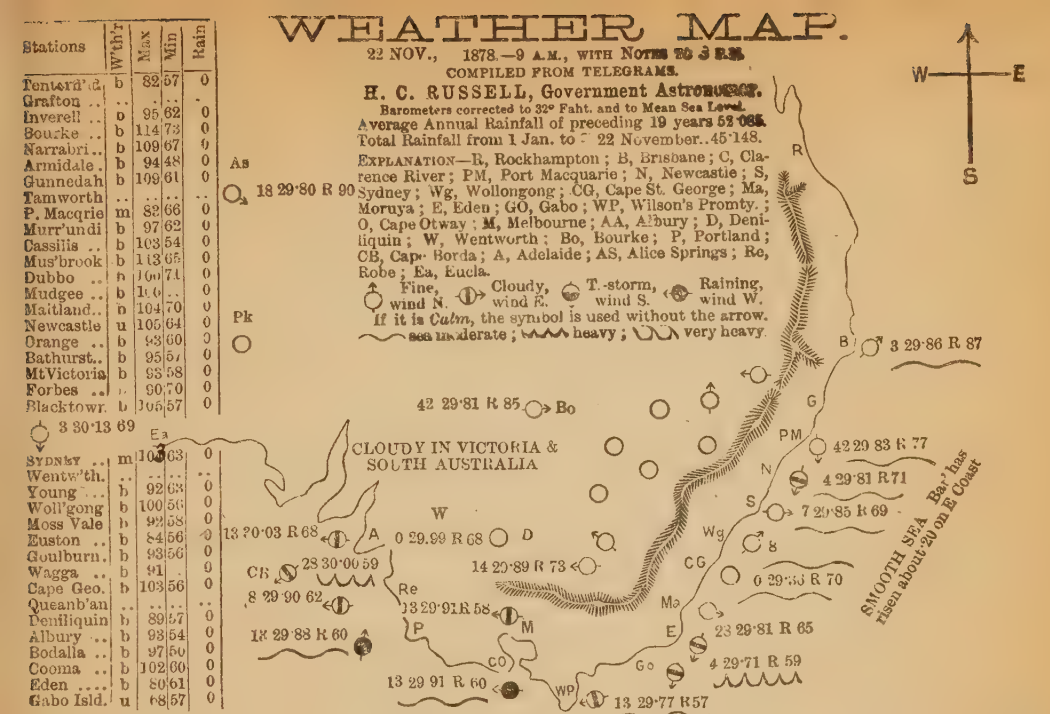
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterf'd	b	82	57	0
Grafton ..	..	..	..	..
Inverell ..	o	95	62	0
Bourke ..	b	114	73	0
Narrabri ..	b	109	67	0
Armidale .	b	94	48	0
Gunnedah	b	109	61	0
Tamworth	..	..	..	..
P. Macqrie	m	82	66	0
Murr'undi	b	97	62	0
Cassilis ..	b	103	54	0
Mus'brook	b	113	65	0
Dubbo ..	b	100	71	0
Mudgee ..	b	100	..	0
Maitland..	b	104	70	0
Newcastle	u	105	64	0
Orange ..	b	93	60	0
Bathurst..	b	95	57	0
Mt Victoria	b	93	58	0
Forbes ..	..	90	70	0
Blacktown	b	105	57	0
SYDNEY ..	m	103	63	0
Wentw'th.	..	..	..	..
Young ...	b	92	63	0
Woll'gong	b	100	56	0
Moss Vale	b	92	58	0
Euston ..	b	84	56	0
Goulburn.	b	93	56	0
Wagga ..	b	91	..	0
Cape Geo.	b	103	56	0
Queanb'an	..	..	..	..
Deniliquin	b	89	57	0
Albury ...	b	93	54	0
Bodalla ..	b	97	50	0
Cooma ..	b	102	60	0
Eden	b	80	61	0
Gabo Isld.	u	68	57	0



WEATHER MAP.

23 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 58·[illegible].

Total Rainfall from 1 Jan. to 22 Nov. [illegible] 15·[illegible].

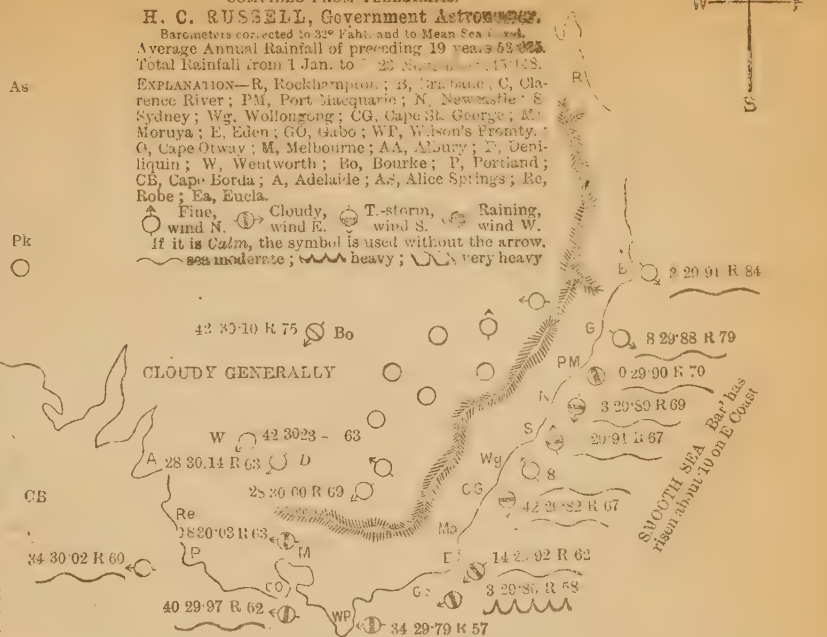
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; M, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; G, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; As, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	Weath'r	Max	Min	Rain
Tenterfield	b	100	60	0
Grafton	b	103	..	0
Inverell	c	97	68	0
Bourke	b	100	71	0
Narrandera	c	106	72	0
Armidale	b	95	51	0
Gunnedah	b	111	64	0
Tamworth	..	..	..	..
P. Macquarie	c	79	62	0
Murr'undi	u	94	61	0
Cassilis	u	99	63	0
Mus'brook	b	102	53	0
Dubbo	c	92	67	0
Mudgee	c	94	..	0
Maitland	g	86	62	0
Newcastle	g	79	64	0
Orange	..	..	..	..
Bathurst	g	87	59	0
Mt Victoria	c	90	54	0
Forbes	c	88	69	0
Blacktown	..	..	..	..
Ea				
SYDNEY	g	72	64	0
Wentw'th.	n	85	56	0
Young	g	87	64	0
Woll'gong	m	73	63	0
Moss Vale	u	85	57	0
Euston	b	82	55	0
Goulburn	g	89	53	0
Wagga	..	..	..	..
Cape Geo.	m	69	59	0
Queanb'an	b	90	59	0
Deniliquin	b	88	55	0
Albury	b	89	54	0
Bodalla	..	..	..	..
Cooma	b	85	50	0
Eden	u	71	58	0
Gabo Isld.	m	67	57	0



WEATHER MAP.

25 NOV., 1878.—9 A.M., WITH NOTES TO 9 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 54·085.

Total Rainfall from 1 Jan. to 25 November..45·148.

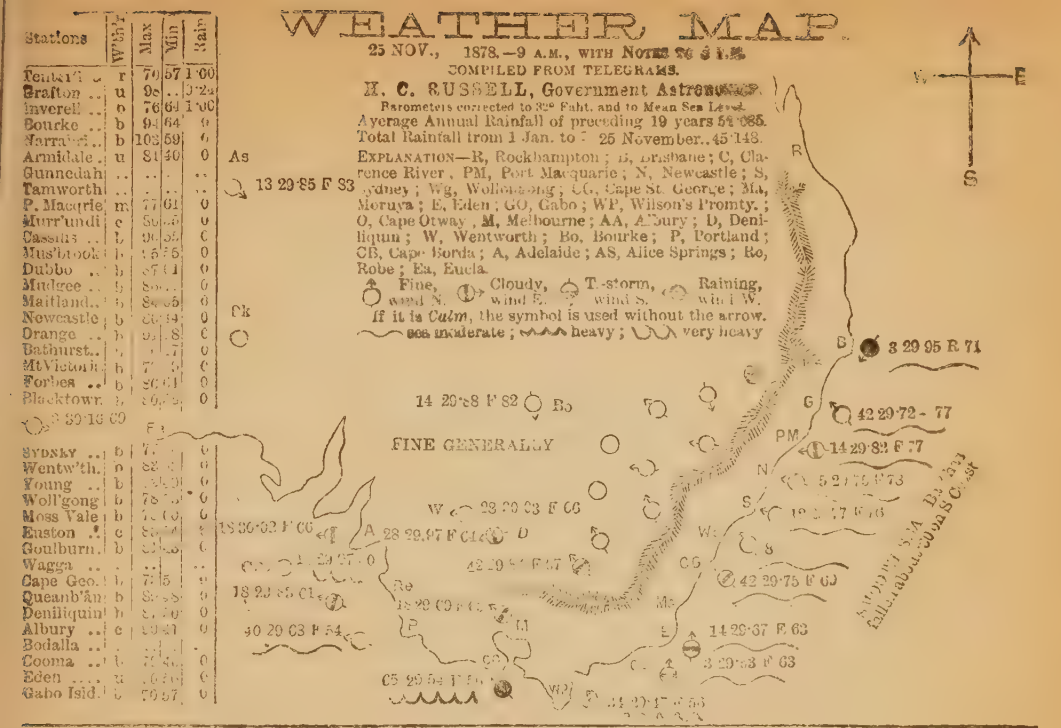
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River, PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway, M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Ro, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	r	70	57	1·00
Grafton	u	98	..	0·20
Inverell	o	76	64	1·00
Bourke	b	94	64	0
Narrandera	b	102	59	0
Armidale	u	81	40	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	m	77	61	0
Murr'undi	c	86	56	0
Cassilis	b	90	55	0
Mus'brook	b	85	55	0
Dubbo	b	87	41	0
Mudgee	b	80	..	0
Maitland	b	84	55	0
Newcastle	b	80	54	0
Orange	b	90	48	0
Bathurst	..	..	47	0
Mt Victoria	b	77	50	0
Forbes	b	90	61	0
Blacktown	b	86	50	0
SYDNEY	b	77	..	0
Wentw'th	o	82	..	0
Young	b	80	50	0
Woll'gong	b	78	57	0
Moss Vale	b	76	50	0
Euston	c	86	54	0
Goulburn	b	85	50	0
Wagga	..	..	..	..
Cape Geo.	b	75	55	0
Queanb'an	b	84	55	0
Deniliquin	h	87	50	0
Albury	c	90	51	0
Bodalla	..	..	..	..
Cooma	b	75	34	0
Eden	u	66	50	0
Gabo Isld.	b	70	57	0



WEATHER MAP.

25 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 58·085.

Total Rainfall from 1 Jan. to 25 November..45·143.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	Wth'r	Max	Min	Rain
Tenterfield	b	72	49	0·16
Grafton ..	b	101	..	0
Inverell ..	..	..	..	..
Bourke ..	b	95	65	0
Narrabri ..	b	93	57	0
Armidale .	b	79	50	0
Gunnedah	c	93	52	0
Tamworth	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	b	92	56	0
Cassilis ..	..	..	..	..
Mus'brook	b	97	64	0
Dubbo ..	b	87	48	0
Mudgee ..	b	84	..	0
Maitland..	b	9	47	0
Newcastle	b	89	65	0
Orange ..	..	..	..	..
Bathurst..	b	77	54	0
MtVictoria	b	75	50	0
Forbes ..	b	75	57	0
Blacktown.	b	98	58	0
Sydney ..	b	86	60	0
Wentw'th.	b	79	47	0
Young ..	b	81	50	0
Woll'gong	b	85	5.	0
Moss Vale	b	7	52	0
Euston ..	b	77	47	0
Goulburn.	b	77	4.	0
Wagga ..	..	..	..	..
Cape Geo.	c	6	51	0
Queanbeyan	b	75	5.	0
Deniliquin	b	8	41	0
Albury ..	c	77	5.	0
Bodalla ..	..	..	..	..
Cooma ..	b	70	40	0·06
Eden	b	72	49	0
Gabo Isld.	c	70	42	0

WEATHER MAP.

27 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 58·785.

Total Rainfall from 1 Jan. to 27 November, 15·143.

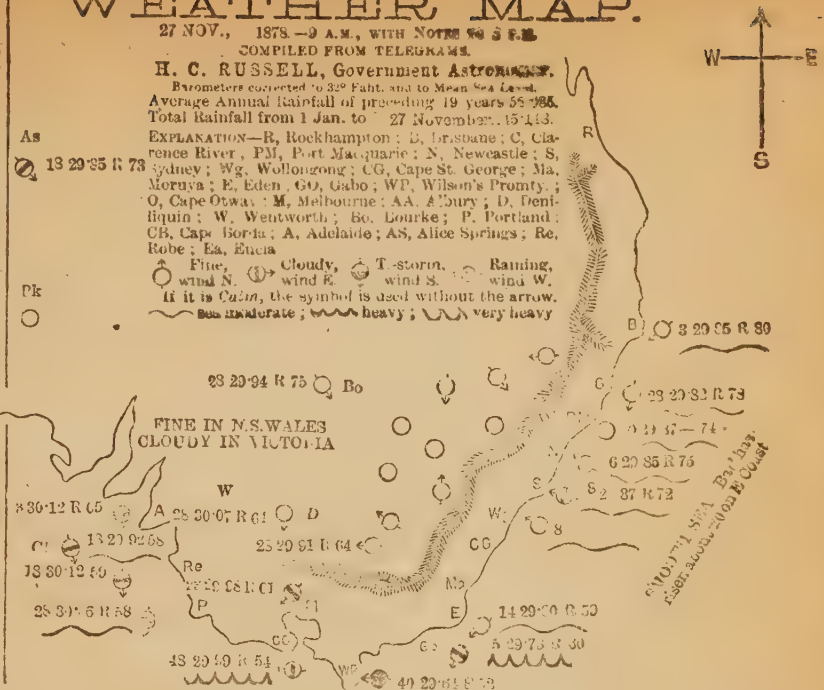
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River, PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden, GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	b	80	40	0
Grafton	c	102	..	0
Inverell	b	82	53	0
Bourke	b	80	56	0
Narraori	c	90	55	0
Armidale	b	79	31	0
Gunnedah	..	..	.	..
Tamworth	..	..	..	..
P. Macqrie	b	77	60	0
Murr'undi	b	78	45	0
Cassilis	b	82	48	0
Mus'brook	b	77	50	0
Dubbo	b	77	54	0
Mudgee	b	81	..	0
Maitland	c	8[illegible]	57	0
Newcastle	b	79	59	0
Orange	b	67	41	0
Bathurst	b	69	39	0
Mt Victoria	b	71	43	0
Forbes	b	79	[illegible]	0
Blacktown	b	82	46	0
SYDNEY	b	79	57	0
Wentw'th.	..	..	..	..
Young	b	7[illegible]	45	0
Woll'gong	b	73	50	0
Moss Vale	b	65	37	0
Euston	..	..	..	..
Goulburn	b	68	32	0
Wagga	..	..		..
Cape Geo.		..	..	..
Queanb'an	b	81	55	0
Deniliquin	b	75	50	0
Albury	b	73	36	0
Bodalla	..	..	.	
Cooma	b	74	[illegible]	0
Eden	b	[illegible]	50	0
Gabo Isld.	g	62	53	0



WEATHER MAP.

23 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean sea level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 28 November..15·154.

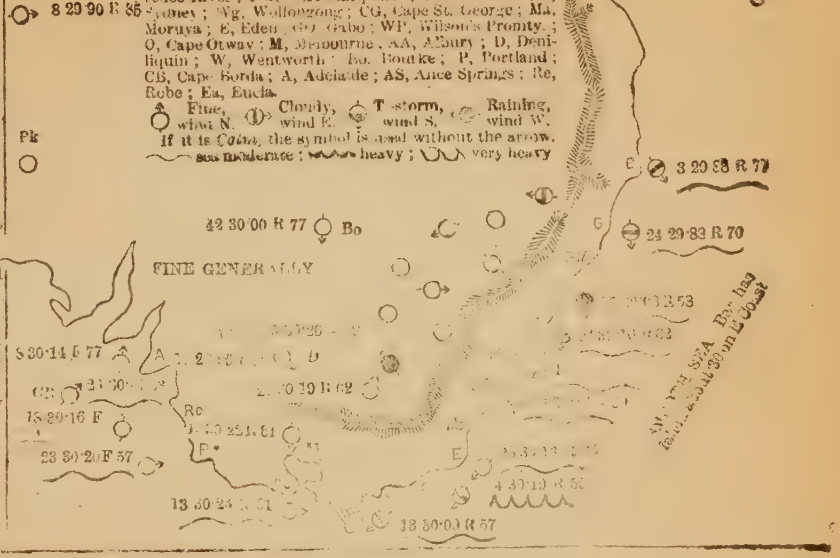
EXPLANATION.—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; Gb, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Mist or moderate; heavy; very heavy

Stations	W'ther	Max	Min	Rain
Toowoomba	u	82	45	0
Grafton	u	10[illegible]	..	0
Inverell	b	82	50	0
Bourke	b	92	50	0
Narrabri	b	8[illegible]	60	0
Armidale	u	78	51	0
Gunnedah	b	97	56	0
Tamworth	..	..	..	..
P. Macquarie	..	..	..	..
Murr'undi	b	8[illegible]	53	0
Cassilis	u	81	45	0
Hus'brook	u	10[illegible]	57	0
Dubbo	b	81	57	0
Mudgee	b	8[illegible]	..	0
Maitland	u	8[illegible]	59	0
Newcastle	p	82	53	0
Orange	b	79	45	0
Bathurst	b	75	50	0
Mt Victoria	u	78	40	0
Forbes	b	78	50	0
Blacktown	c	88	52	0·06
Sydney	u	80	55	0·01
Wentw'th	b	80	52	0
Young	b	77	51	0
Woll'gong	b	78	5[illegible]	0
Moss Vale	b	75	45	0·1[illegible]
Eastern	b	8[illegible]	1	0
Goulburn	b	7[illegible]	48	0
Wagga	..	..	..	..
Cape Geo.	..	[illegible]	59	0·07
Queanbeyan	c	[illegible]	[illegible]	0
Deniliquin	b	7[illegible]	[illegible]	0
Albury	b	7[illegible]	[illegible]	0
Bordalia	..	..	..	..
Cooma	[illegible]	[illegible]	[illegible]	[illegible]
Eden	[illegible]	[illegible]	[illegible]	[illegible]
Gabo Isld	g	[illegible]	[illegible]	[illegible]



WEATHER MAP.

20 NOV., 1878.—9 A.M., WITH NOTES AT 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 10 years to date.

Total Rainfall from 1 Jan. to 20 Nov. inclusive.

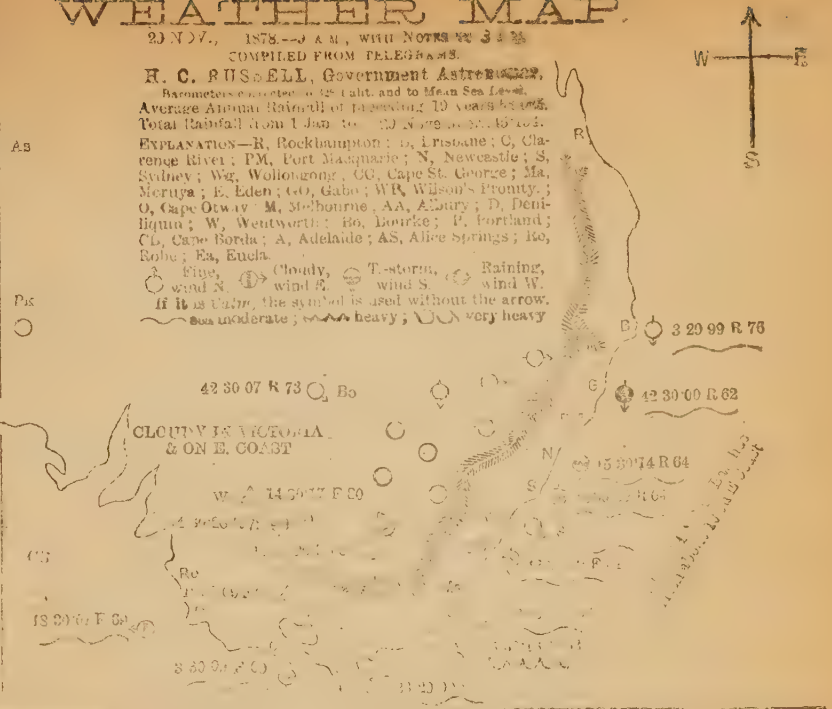
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Meruya; E, Eden; GO, Gabo; WR, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Ro, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W.

If it is calm, the symbol is used without the arrow.

Sea moderate; heavy; very heavy

Stations	Weather	Max	Min	Rain
Rockhampton	b	74	45	0·32
Grafton	b	84	..	0
Inverell	b	84	58	0
Bourke	b	91	59	0
Narrandera	u	88	57	0
Armidale	u	78	50	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
E. Maitland	..	..	..	..
Muswellbrook	b	85	..	0
Casino	b	79	50	0
Moss Vale	b	..	45	0
Dubbo	b	80	57	0
Mudgee	b	8	..	0
Maitland	b	..	0	0·0
Newcastle	b	..	4	0·0
Orange	b	72	41	0
Bathurst	b	69	37	0
Mt Victoria	b	..	30	0
Forbes	b	80	48	0
Stockowry	..	..	..	..
Cootamundra	c	..	..	..
Wentworth	b	..	..	0
Yass	b	..	..	..
Wollongong	b	6	..	0
Moss Vale	b	..	..	..
Bowral	..	..	..	..
Goulburn	..	..	..	..
Wagga	..	..	..	..
Cape Otway	b	..	..	..
Queanbeyan	b	..	..	..
Albury	..	..	..	..
Deniliquin	..	..	..	..
Adelaide	..	..	..	..
Cooma	b	..	..	..
Eden	b	62	47	0
Gabo Island	b	7	..	..



WEATHER MAP.

30 NOV., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 58·085.

Total Rainfall from 1 Jan. to 30 November, 45·154.

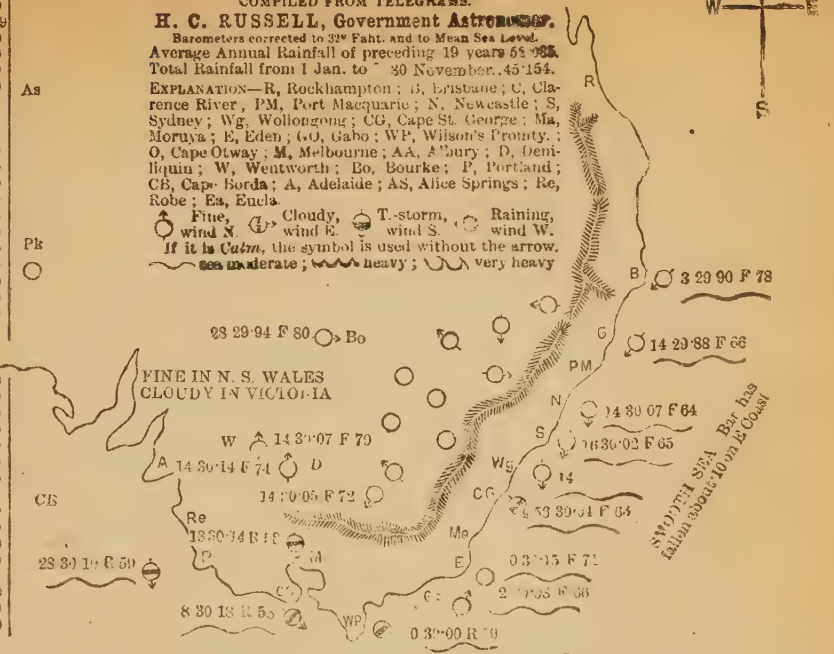
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River, PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain	
Tenterfield	b	77	39	0	
Grafton	b	88	..	0·09	
Inverell	b	76	51	0	
Bourke	b	88	63	0	
Narrabri	b	86	57	0	
Armidale	b	66	30	0	As
Gunnedah	..	..	..	.	
Tamworth	..	..	..	..	
P. Macqrie	..	..	..	..	
Murr'undi	b	91	53	0	
Cassilis	b	80	52	0	
Mus'brook	b	90	51	0	
Dubbo	b	88	58	0	
Mudgee	b	82	..	0	
Maitland	b	72	53	0	
Newcastle	b	72	57	0	Pk
Orange	b	75	44	0	
Bathurst	n	77	44	0	
Mt Victoria	b	72	41	0	
Forbes	b	89	64	0	
Blacktown	..	..	..	..	
					Ea
Sydney	b	68	56	0	
Wentw'th	b	97	57	0	
Young	b	78	53	0	
Woll'gong	b	67	55	0	
Moss Vale	b	68	49	0	
Euston	b	98	59	0	
Goulburn	b	77	50	0	
Wagga	..	..	..	..	CB
Cape Geo.	b	6	53	0	
Queanb'an	b	84	49	0	
Deniliquin	b	9	53	0	
Albury	b	80	56	0	
Bodalla	..	..	..	..	
Cooma	b	78	38	0	
Eden	b	72	57	0	
Gabo Isld.	b	68	55	0	



WEATHER MAP.

2 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·065.

Total Rainfall from 1 Jan. to 2 December..45·154.

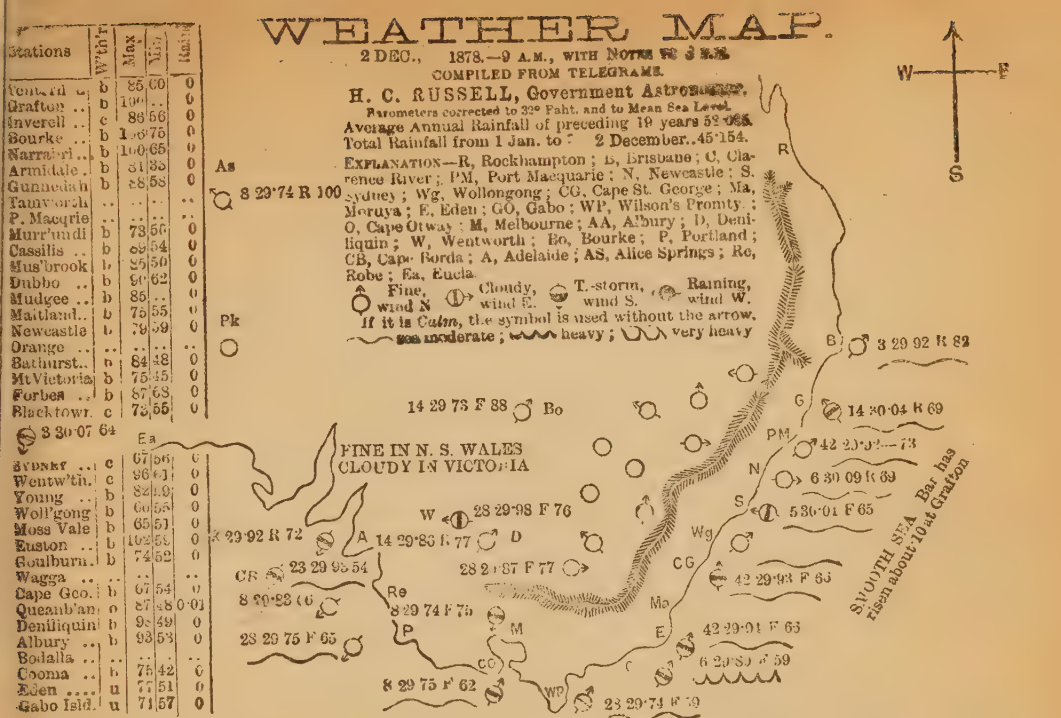
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	Weather	Max	Min	Rain
Tenterfield	b	85	60	0
Grafton	b	100	..	0
Inverell	c	86	56	0
Bourke	b	100	75	0
Narrabri	b	100	65	0
Armidale	b	81	35	0
Gunnedah	b	88	58	0
Tamworth	..	..	..	..
P. Macquarie	..	..	..	..
Murr'mdi	b	73	56	0
Cassilis	b	89	54	0
Mus'brook	b	85	50	0
Dubbo	b	90	62	0
Mudgee	b	86	..	0
Maitland	b	75	55	0
Newcastle	b	79	59	0
Orange	..	..	..	..
Bathurst	b	84	48	0
Mt Victoria	b	75	45	0
Forbes	b	87	63	0
Blacktown	c	73	55	0
SYDNEY	c	67	56	0
Wentw'th	c	96	61	0
Young	b	82	49	0
Woll'gong	b	60	55	0
Moss Vale	b	65	51	0
Euston	b	102	53	0
Goulburn	b	74	52	0
Wagga	..	..	..	..
Cape Geo.	b	67	54	0
Queanb'an	o	87	58	0·01
Deniliquin	b	98	49	0
Albury	b	93	53	0
Bodalla	..	..	..	..
Cooma	b	75	42	0
Eden	u	77	51	0
Gabo Isld.	u	71	57	0



WEATHER MAP.

3 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·065.

Total Rainfall from 1 Jan. to 3 December..45·154.

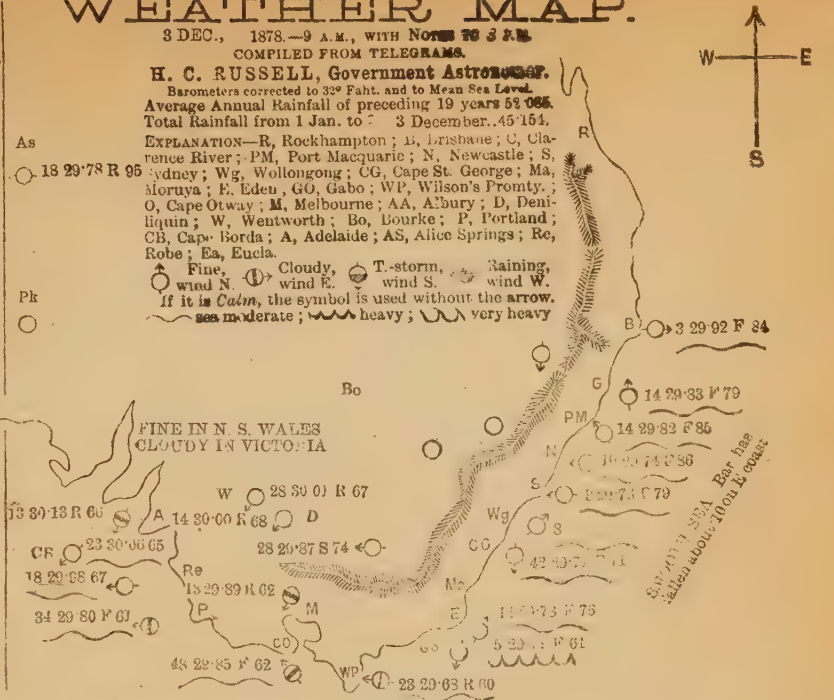
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden, GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Rockhampton	b	82	60	0·23
Grafton	b	102	..	0
Inverell	b	86	55	0
Bourke	..	..	..	..
Narrandi	b	102	77	0
Armidale	b	86	41	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	83	67	0
Murr'undi	..	..	..	..
Cossilis	b	95	57	0
Mus'brook	b	100	64	0
Dubbo	b	98	71	0
Mudgee	b	94	..	0
Maitland	b	87	64	0
Newcastle	b	90	59	0
Orange	b	81	56	0
Bathurst	b	88	[illegible]	0
MtVictoria	b	90	57	0
Forbes	b	90	59	0
Blacktown	b	83	57	0
SYDNEY	b	80	63	0
Wentw'th	b	93	58	0
Young	..	..	..	..
Woll'gong	b	73	58	0
Moss Vale	b	76	55	0
Euston	b	93	69	0
Goulburn	b	[illegible]	[illegible]	0
Wagga	..	..	..	..
Cape Geo.	b	74	56	0
Queanb'n	b	88	62	0
Deniliquin	b	95	55	0
Albury	b	91	49	0
Bodalla	b	76	58	0
Cooma	b	89	43	0
Eden	b	76	55	0
Gabo Isld	b	65	58	0



WEATHER MAP.

4 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 4 December..45·154.

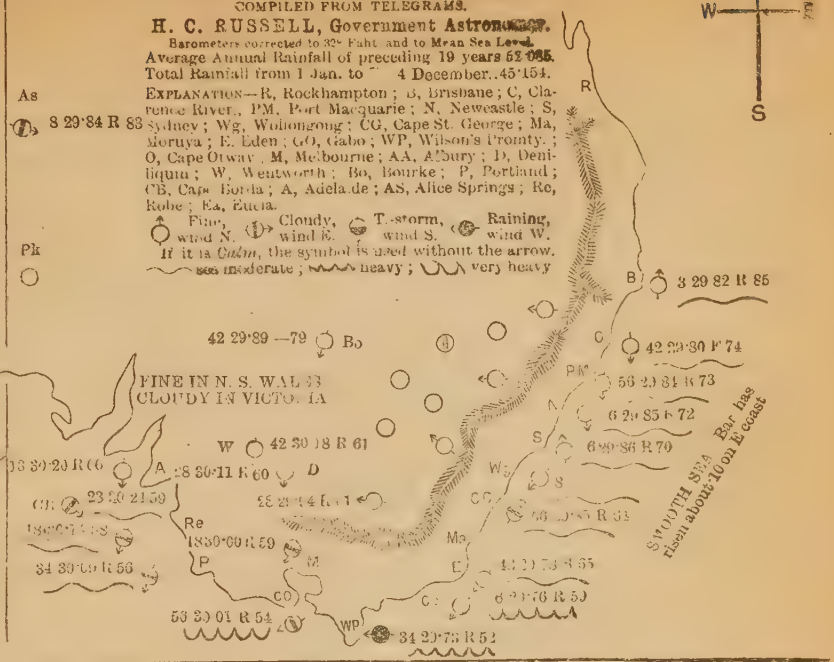
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	b	90	55	0
Grafton ..	b	104	..	0
Inverell ..	b	91	56	0
Bourke ..	b	105	68	0
Narrabri..	c	105	66	0
Armidale .	b	86	48	0
Gunnedah	b	109	58	0
Tamworth	..	..	..	..
P. Macquie	m	88	68	0
Murr'undi	b	92	58	0
Cassilis ..	b	90	54	0
Mus'brook	b	11[illegible]	62	0
Dubbo ..	b	94	58	0
Mudgee ..	b	92	..	0
Maitland..	b	95	68	0
Newcastle	b	93	65	0
Orange ..	b	84	59	0
Bathurst..	b	83	51	0
MtVictoria	b	87	54	0
Forbes ..	b	89	71	0
Blacktown	b	97	61	0
SYDNEY ..	b	85	62	0
Wentw'th.	b	83	49	0
Young ..	b	87	[illegible]	0
Woll'gong	b	69	60	0
Moss Vale	b	86	55	0
Euston ..	b	84	59	0
Goulburn.	b	87	47	0
Wagga ..	..	..		..
Cape Geo.	b	86	56	0
Queanb'an	b	[illegible]	[illegible]	0
Deniliquin	b	83	47	0
Albury ..	b	86	48	0
Bodalla ..	..	..	..	..
Cooma ..	b	87	15	0
Eden	b	77	56	0
Gabo Isld.	m	68	55	0



WEATHER MAP.

5 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 53·355.

Total Rainfall from 1 Jan. to 5 December..45·499.

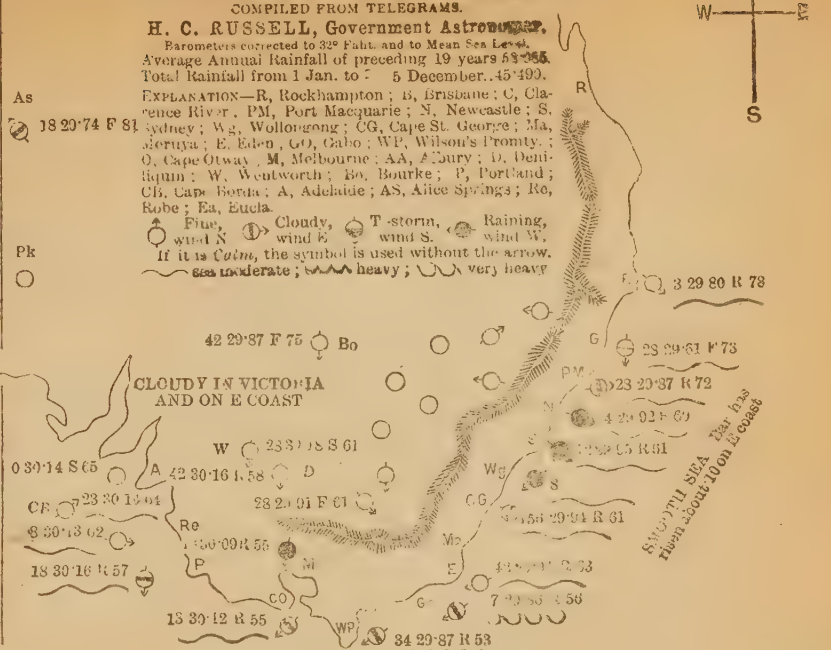
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River, PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden, GO, Cabo; WP, Wilson's Promty.; O, Cape Otway, M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; Cb, Cape Bonda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N — Cloudy, wind E — T-storm, wind S. — Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain.
Tenterfield	b	90	47	0
Drafton ..	c	97	..	0
Inverell ..	u	85	58	0
Bourke ..	b	95	60	0
Narrabri ..	b	100	64	0
Armidale ..	b	86	39	0
Gunnedah	b	106	61	0
Tamworth	..	..	..	..
P. Macquarie	c	77	68	0
Murr'undi	b	83	60	0
Cassilis ..	b	91	54	0
Mus'brook	b	102	68	0
Dubbo ..	b	87	58	0
Mudgee ..	b	90	..	0
Maitland ..	u	87	64	0·04
Newcastle	r	77	59	0·15
Orange ..	b	76	54	0
Bathurst ..	b	78	42	0
Mt Victoria	..	..	..	..
Forbes ..	b	85	69	0
Blacktown	p	88	58	0·07
SYDNEY ..	p	75	59	0·34
Wentw'th.	b	77	38	0
Young ..	b	77	46	0
Woll'gong	p	7[illegible]	59	0·27
Moss Vale	b	78	55	0
Euston ..	b	83	47	0
Goulburn	b	78	46	0
Wagga ..	..	..	..	..
Cape Goo.	b	64	56	0
Queanb'an	b	71	49	0
Deniliquin	b	88	53	0
Albury ..	b	79	36	0
Bodalla ..	b	67	46	0
Cooma ..	b	80	35	0
Eden	b	73	51	0
Cabo Isld.	g	63	52	0·09



WEATHER MAP.

6 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 6 December..45·681.

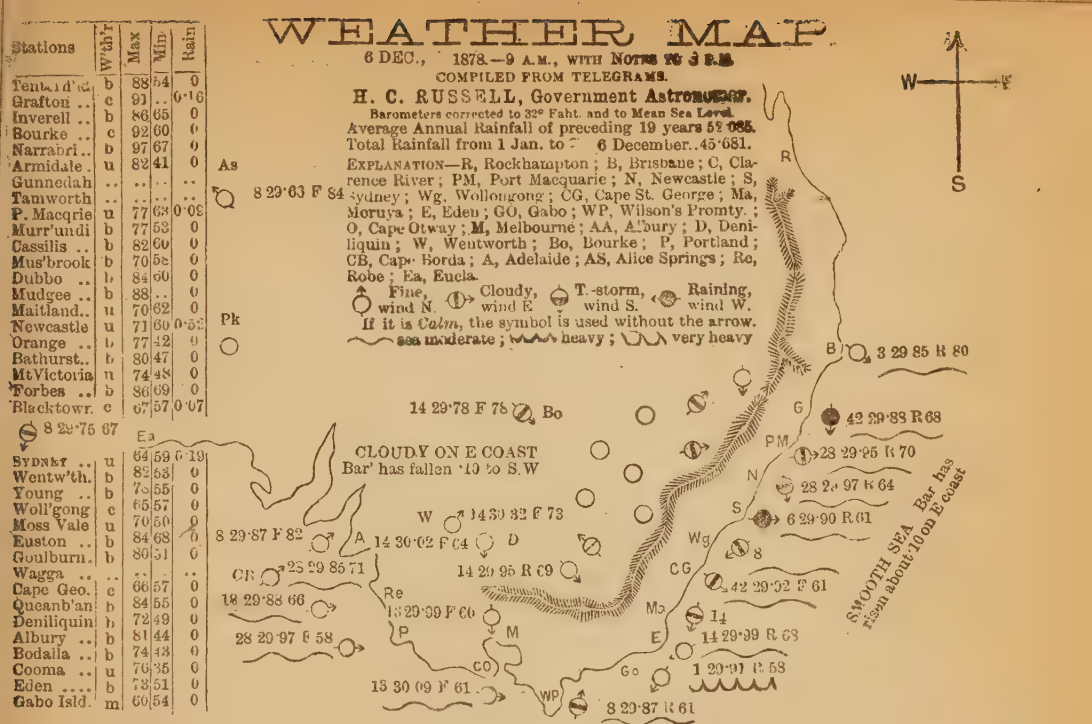
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	b	88	54	0
Grafton ..	c	91	..	0·16
Inverell ..	b	86	65	0
Bourke ..	c	92	60	0
Narrabri ..	b	97	67	0
Armidale ..	u	82	41	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	u	77	63	0·09
Murr'undi	b	77	53	0
Cassilis ..	b	82	60	0
Mus'brook	b	70	58	0
Dubbo ..	b	84	60	0
Mudgee ..	b	88	..	0
Maitland ..	u	70	62	0
Newcastle	u	71	60	0·52
Orange ..	b	77	42	0
Bathurst ..	b	80	47	0
Mt Victoria	u	74	48	0
Forbes ..	b	86	69	0
Blacktown.	c	67	57	0·07
SYDNEY ..	u	64	59	0·19
Wentw'th.	b	82	53	0
Young ..	b	78	55	0
Woll'gong	c	65	57	0
Moss Vale	u	70	50	0
Euston ..	b	84	68	0
Goulburn.	b	80	51	0
Wagga ..	..	..	..	..
Cape Geo.	c	66	57	0
Queanb'an	b	84	55	0
Deniliquin	b	72	49	0
Albury ..	b	81	44	0
Bodalla ..	b	74	43	0
Cooma ..	u	76	35	0
Eden	b	73	51	0
Gabo Isld.	m	66	54	0



WEATHER MAP.

7 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 7 December..45·700.

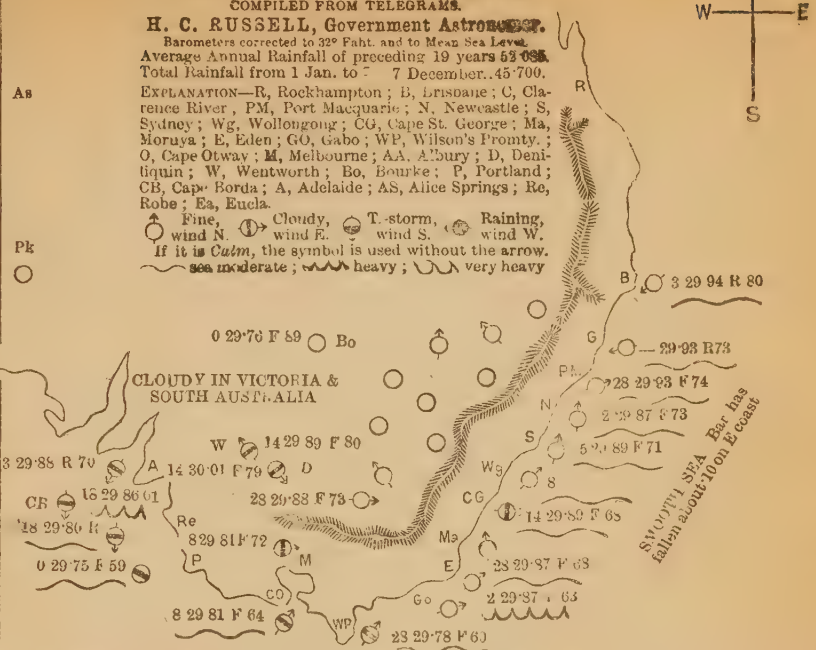
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River, PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Denitiquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain	
Tenterfield	b	88	50	0	
Grafton ..	b	81	..	0	
Inverell ..	b	84	60	0	
Bourke ..	b	99	65	0	
Narrandera ..	b	100	70	0	
Armidale ..	u	83	41	0	As
Gunnedah	..	..	..	..	
Tamworth	..	..	..	..	
P. Macqrie	b	74	61	0	
Murr'undi	b	82	56	0	
Cassilis ..	..	..	..	..	
Mus'brook	b	89	58	0	
Dubbo ..	b	87	65	0	
Mudgee ..	b	88	..	0	
Maitland..	b	76	60	0	
Newcastle ..	b	88	64	0	Pk
Orange ..	b	87	43	0	
Bathurst..	b	81	50	0	
MtVictoria	n	77	51	0	
Forbes ..	b	88	67	0	
Blacktown	b	74	59	0	
Eucla					
SYDNEY ..	b	72	61	0·02	
Wentw'th.	g	95	58	0	
Young ..	b	79	57	0	
Woll'gong	b	69	60	0	
Moss Vale	b	73	56	0	
Euston ..	b	98	52	0	
Goulburn..	b	81	54	0	
Wagga ..	..	..	..	..	
Cape Geo.	b	70	52	0	
Queanb'an	b	85	58	0	
Deniliquin	b	93	52	0	
Albury ..	b	87	45	0	
Bodalla ..	b	75	56	0	
Cooma ..	b	75	46	0	
Eden	b	76	55	0	
Gabo Isld.	b	69	52	0	



WEATHER MAP.

9 DEC., 1878.—9 A.M., WITH NOTES TO 9 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·035.

Total Rainfall from 1 Jan. to 9 December..45·753.

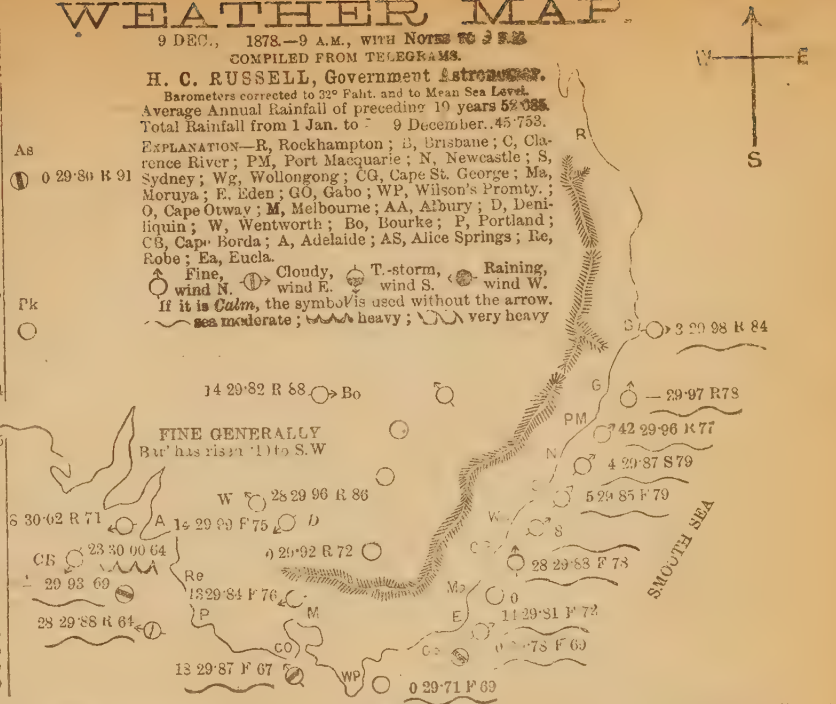
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	WthT	Max	Min	Rain
Tenterfd	b	76	53	0·19
Drafton	..	..	..	..
Inverell	b	83	63	0
Bourke	b	108	75	0
Narrabri	b	98	66	0
Armidale	b	84	42	0
Gunnedah	b	101	60	0·94
Tamworth	..	..	..	..
P. Macqrie	b	81	67	0
Murr'undi	b	86	61	0
Cassilis	.	..	..	..
Mus'brook	b	102	65	0
Dubbo	b	98	69	0
Mudgee	b	97	..	0
Maitland	b	91	61	0·15
Newcastle	b	87	64	0
Orange	b	92	46	0
Bathurst	b	90	58	0
MtVictoria	n	89	56	0
Forbes	b	93	75	0
Blacktown	b	90	63	0·24
Sydney	b	80	65	0·05
Wentw'th.	b	90	60	0
Young	b	92	61	0
Woll'gong	b	77	54	0
Moss Vale	b	86	60	0
Euston	b	95	58	0
Goulburn	b	95	56	0
Wagga	..	..	..	..
Cape Geo.	b	73	62	0
Queanb'an	b	95	53	0
Deniliquin	b	97	54	0
Albury	b	102	51	0
Bodalla	b	82	65	0
Cooma	b	92	47	0
Eden	b	75	57	0
Gabo Isld.	f	70	59	0



WEATHER MAP.

10 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 10 December..46·258.

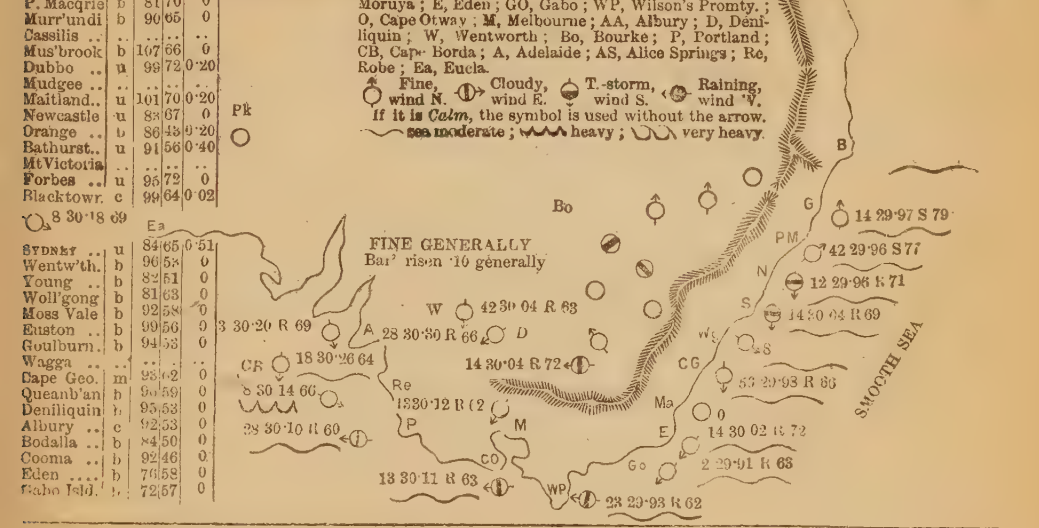
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterf'ld	b	90	58	0
Grafton ..	..	..	..	..
Inverell ..	b	88	67	0
Bourke ..	..	..	..	0
Narrabri ..	b	105	78	0
Armidale .	u	90	50	0
Gunnedah	u	105	68	0
Tamworth	..	..	..	..
P. Macqrie	b	81	70	0
Murr'undi	b	90	65	0
Cassilis ..	..	..	..	..
Mus'brook	b	107	66	0
Dubbo ..	u	99	72	0·20
Mudgee ..	..	..	..	..
Maitland..	u	101	70	0·20
Newcastle	u	88	67	0
Orange ..	b	86	45	0·20
Bathurst..	u	91	56	0·40
Mt Victoria	..	..	..	..
Forbes ..	u	95	72	0
Blacktowr.	c	99	64	0·02
SYDNEY ..	u	84	65	0·51
Wentw'th.	b	96	53	0
Young ..	b	82	51	0
Woll'gong	b	81	63	0
Moss Vale	b	92	58	0
Euston ..	b	99	56	0
Goulburn.	b	94	53	0
Wagga ..	..	..	..	..
Cape Geo.	m	93	52	0
Queanb'an	b	90	59	0
Deniliquin	b	95	53	0
Albury ..	c	92	53	0
Bodalla ..	b	84	50	0
Cooma ..	b	92	46	0
Eden	b	76	58	0
Gabo Isld.	b	72	57	0



WEATHER MAP.

11 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·065.

Total Rainfall from 1 Jan. to 11 December..46·258.

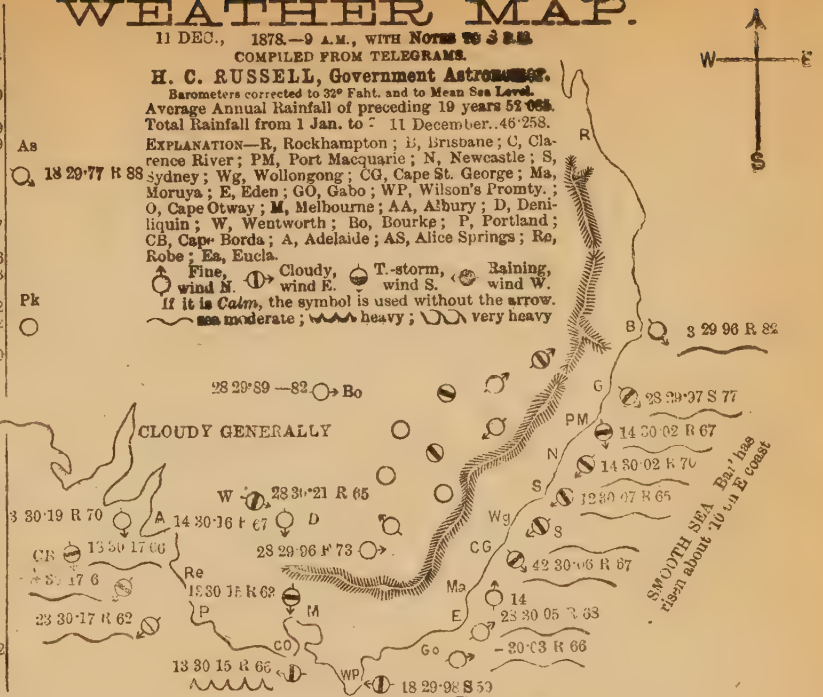
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min.	Rain
Tenterf'd	n	68	58	1·27
Grafton ..	..	..	..	..
Inverell ..	b	91	65	0·60
Bourke ..	b	107	72	0
Narrabri ..	c	105	70	0·59
Armidale .	u	88	47	0·19
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	u	81	68	0
Murr'undi	u	90	62	0
Cassilis ..	u	95	63	0·67
Mus'brook	u	96	65	0
Dubbo ..	b	95	57	0·16
Mudgee ..	u	96	..	1·23
Maitland..	u	85	63	0
Newcastle	u	76	61	0·02
Orange ..	u	91	46	0·02
Bathurst..	u	8[illegible]	56	0
MtVictoria	u	9[illegible]	62	0·50
Forbes ..	b	9[illegible]	74	0
Blacktown.	u	81	62	0
SYDNEY ..	u	72	64	0
Wentw'th.	b	88	55	0
Young ..	c	88	61	0
Woll'gong	c	71	62	0
Moss Vale	u	76	58	0
Euston ..	u	87	55	0
Goulburn.	b	82	53	0
Wagga ..	..	..	..	..
Cape Geo.	b	67	62	0
Queanb'an	b	94	54	0
Deniliquin	b	87	50	0
Albury ..	f	92	48	0
Bodalla ..	b	79	47	0
Cooma ..	b	88	49	0·02
Eden	b	76	58	0
Gabo Isld.	b	69	55	0



WEATHER MAP.

12 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 12 December..47·053.

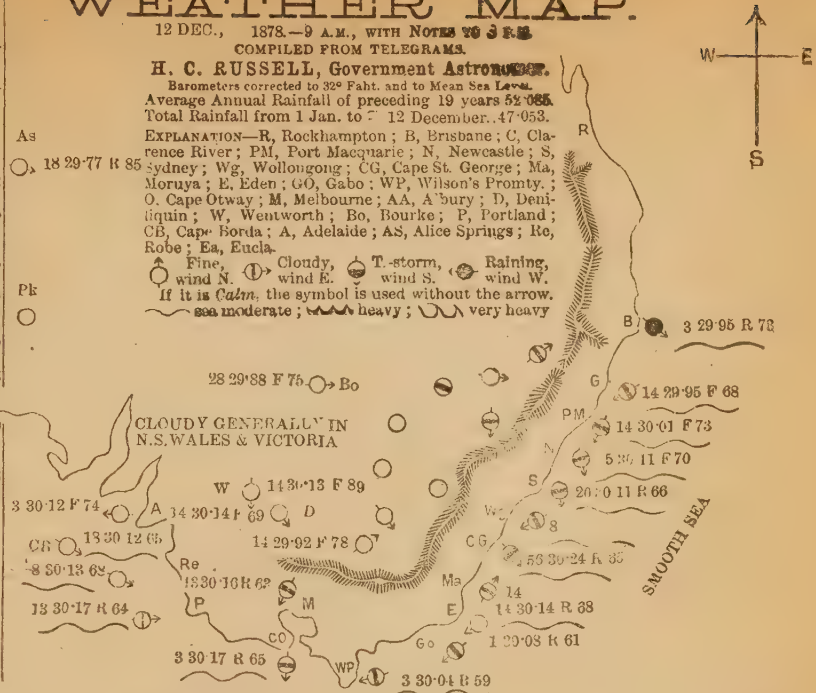
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Ro, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'thr	Max	Min.	Rain
Tenterfield	u	75	56	0·47
Grafton ..	..	..	..	..
Inverell ..	b	81	65	0·71
Bourke ..	..	..	..	..
Narrabri ..	u	96	67	0
Armidale .	u	87	44	0
Gunnedah	u	91	60	0
Tamworth	..	..	..	..
P. Macqrie	u	86	66	1·12
Murr'undi	u	82	51	0
Cassilis ..	u	87	62	0·75
Mus'brook	r	85	60	0
Dubbo ..	c	89	67	0·41
Mudgee ..	u	89	..	1·06
Maitland..	u	83	67	0
Newcastle	u	76	63	1·73
Orange ..	c	85	43	0·30
Bathurst..	u	81	57	0·25
Mt Victoria	p	78	48	0·90
Forbes ..	b	87	67	0
Blacktown.	–	84	59	0·12
Sydney ..	u	74	62	0·20
Wentw'th.	b	86	59	0
Young ..	b	89	60	0
Woll'gong	c	74	61	0·42
Moss Vale	u	79	58	0·07
Euston ..	b	88	53	0
Goulburn.	u	86	52	0·78
Wagga ..	..	..	..	..
Cape Geo.	b	69	58	0
Queanb'an	b	92	58	0
Deniliquin	b	86	50	0
Albury ..	b	93	56	0
Bodalla ..	..	..	..	..
Cooma ..	b	80	42	0
Eden	b	73	55	0
Gabo Isld.	m	70	54	0



WEATHER MAP.

13 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·065.

Total Rainfall from 1 Jan. to 13 December..47·187.

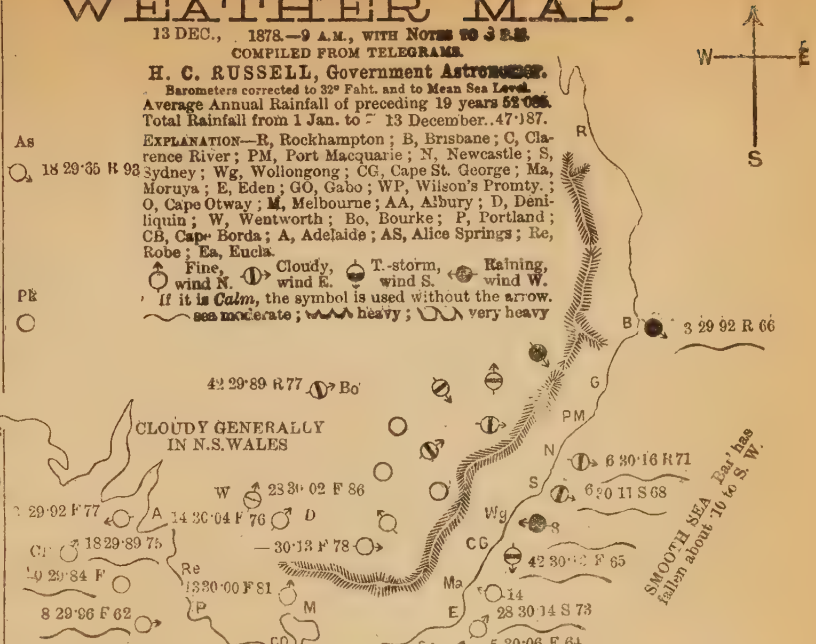
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min.	Rain
Tenterf'd	r	75	59	0·28
Grafton ..	r	79	..	1·15
Inverell ..	u	89	64	0
Bourke ..	b	92	70	0
Narrabri ..	u	92	69	0
Armidale .	u	96	30	0·29
Gunnedah	u	92	62	0
Tamworth	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	u	74	57	0
Cassilis ..	b	75	62	0
Mus'brook	u	78	64	0·04
Dubbo ..	c	81	66	0
Mudgee ..	u	71	..	0
Maitland..	c	77	67	0·06
Newcastle	u	76	65	0·49
Orange ..	u	74	45	0
Bathurst..	u	67	57	0
Mt Victoria	r	58	56	0·71
Forbes ..	b	85	66	0
Blacktown.	..	..	..	..
Sydney ..	u	72	64	6·13
Wentw'th.	b	92	62	0
Young ..	b	78	61	0
Woll'gong	p	68	60	0·09
Moss Vale	u	66	54	0
Euston ..	b	96	62	0
Goulburn.	u	74	56	0
Wagga ..	..	..	..	..
Cape Geo.	c	74	62	0
Queanb'an	b	81	59	0
Deniliquin	b	96	62	0
Albury ..	b	99	55	0
Bodalla ..	b	78	48	0
Cooma ..	b	76	43	0
Eden	b	74	58	0
Gabo Isld.	m	72	59	0



WEATHER MAP.

14 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·088.

Total Rainfall from 1 Jan. to 14 December..47·406.

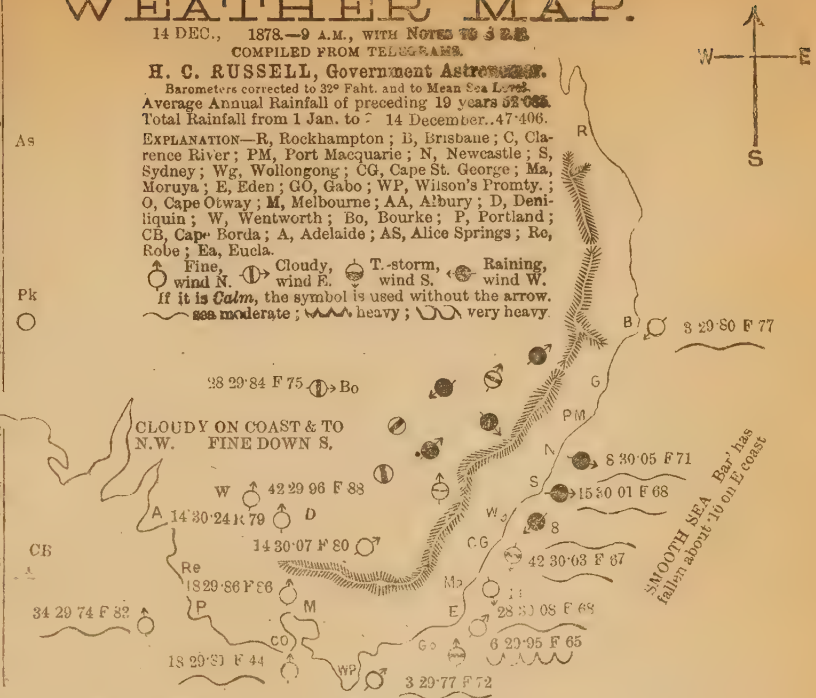
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min.	Rain
Tenterf'd.	r	65	54	1·02
Grafton ..	r	86	..	1·30
Inverell ..	g	64	58	0·58
Bourke ..	c	85	61	0
Narrabri ..	r	82	62	0·36
Armidale .	u	75	30	0·31
Gunnedah	u	99	59	0·12
Tamworth	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	r	77	58	0·45
Cassilis ..	.	..	..	..
Mus'brook	r	88	63	0·20
Dubbo ..	u	83	68	0
Mudgee ..	p	85	..	0·13
Maitland..	r	89	62	4·15
Newcastle	r	77	66	0·09
Orange ..	r	74	46	0·03
Bathurst..	r	76	58	0·15
Mt Victoria	r	75	53	0·12
Forbes ..	n	88	64	0
Blacktown.	r	82	65	0
SYDNEY ..	r	76	67	0·22
Wentw'th.	b	101	70	0
Young ..	g	85	64	0
Woll'gong	p	71	59	0·34
Moss Vale	c	79	58	0
Euston ..	b	102	73	0·09
Goulburn.	u	72	52	0
Wagga ...	..	..	..	..
Cape Geo.	u	73	64	0·12
Queanb'an	u	80	63	0
Deniliquin	b	95	62	0
Albury ..	b	90	64	0
Bodalla ..	b	78	57	0
Cooma ..	..	..	..	..
Eden	b	75	67	0
Gabo Isld.	m	68	62	0



WEATHER MAP.

16 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·685.

Total Rainfall from 1 Jan. to 15 December..48·612.

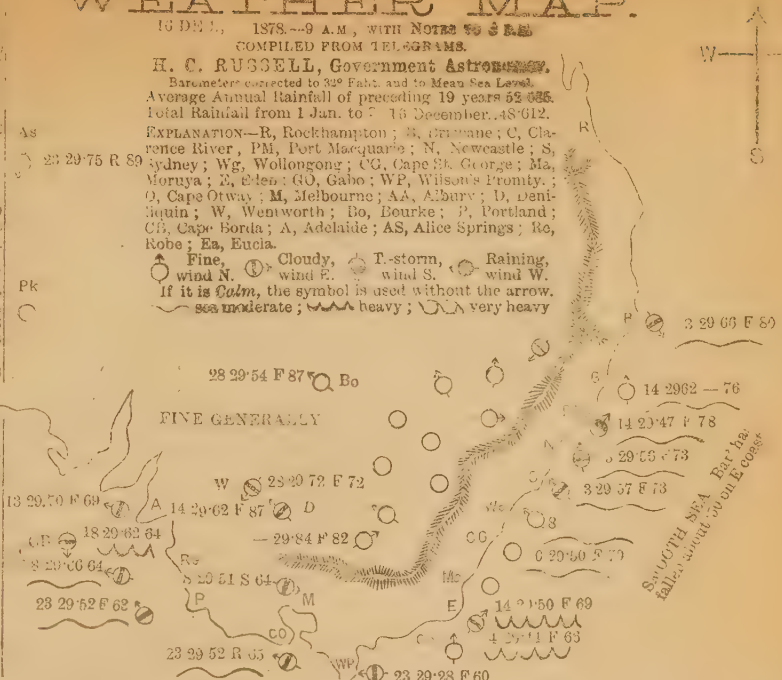
EXPLANATION.—R, Rockhampton; B, Brisbane; C, Clarence River, PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Ro, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations				
Toowoomba			79	49	0·30
Grafton	b		79	..	0·17
Inverell	b		81	67	0
Bourke	l		81	68	0
Narrandera	b		91	72	0
Armidale	n		73	60	0·92
Gunnedah			..	..	..
Tamworth			..	..	..
P. Macquarie			..	..	..
Murrumbidgee	u		80	62	0
Tassilis	b		78	63	0·80
Muswellbrook	b		97	66	0·10
Dubbo	n		85	67	0·61
Mudgee	b		83	..	0
Maitland	n		86	68	4·97
Newcastle	o		83	69	0·16
Orange	u		77	50	0·24
Bathurst	b		77	62	2·13
McVictoria	u		78	55	7·96
Forbes	b		82	64	0
Blacktown	b		87	67	2·08
Sydney	u		77	67	1·24
Wentworth	b		106	62	0
Young	b		80	63	1·35
Wollongong	b		76	67	1·71
Moss Vale	c		74	61	2·85
Euston	b		106	85	0
Goulburn	b		74	62	1·23
Wagga	..		..	..	..
Cape Geo.	b		76	66	7·10
Queanbeyan	b		86	61	0·52
Deniliquin	b		102	57	0
Albury	b		96	59	0
Bodalla	..		..	..	..
Cooma	b		74	59	0
Eden	u		73	64	0·60
Gabo Isld.	m		69	62	0·09



WEATHER MAP.

17 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 17 December..48·627.

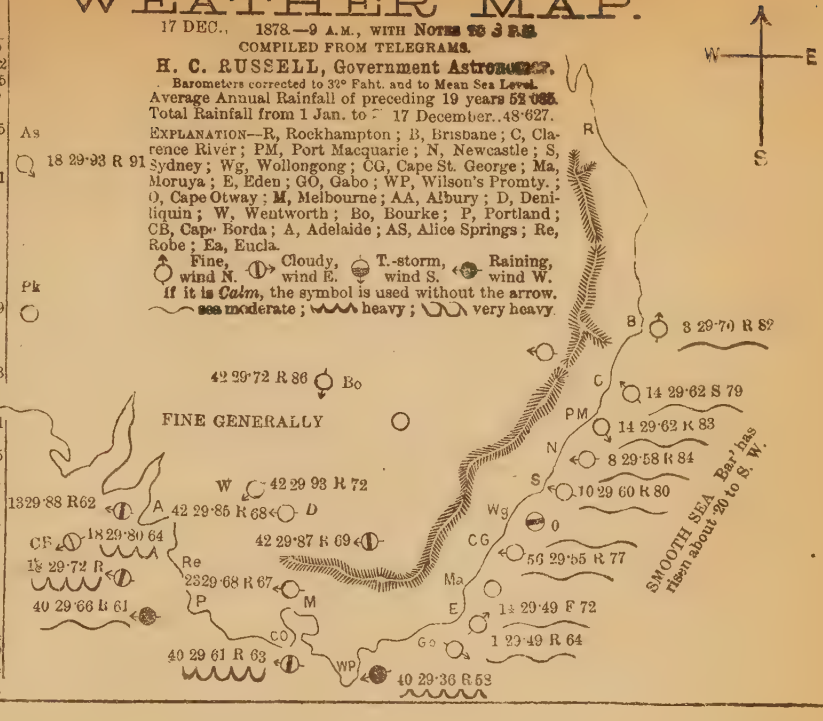
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfield	b	90	55	0
Grafton	b	82	..	0·22
Inverell	b	91	65	0·35
Bourke	b	108	74	0
Narrabri	..	..	..	..
Armidale	b	83	40	0·05
Gunnedah	b	100	65	0
Tamworth	..	..	..	..
P. Macqrie	b	82	67	0·11
Murr'undi	b	86	68	0
Cassilis	b	97	67	0
Mus'brook	b	102	69	0
Dubbo	b	91	64	0
Mudgee	b	92	..	0
Maitland	b	92	72	0
Newcastle	b	93	70	0
Orange	b	79	49	0·09
Bathurst	b	88	62	0
Mt Victoria	b	81	56	0
Forbes	b	88	69	0
Blacktown	b	93	64	0·13
SYDNEY	b	81	71	0·01
Wentw'th.	b	87	60	0
Young	b	85	63	0·05
Woll'gong	c	80	67	0
Moss Vale	b	85	60	0
Euston	c	81	62	0
Goulburn	b	89	59	0·01
Wagga	..	..	..	..
Cape Geo.	b	88	59	0
Queanb'an	b	94	62	0
Deniliquin	b	97	54	0
Albury	b	92	57	0
Bodalla	..	..	..	..
Cooma	b	91	55	0·34
Eden	b	75	58	0·39
Gabo Isld.	b	73	56	0·24



WEATHER MAP.

18 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 18 December..48·627.

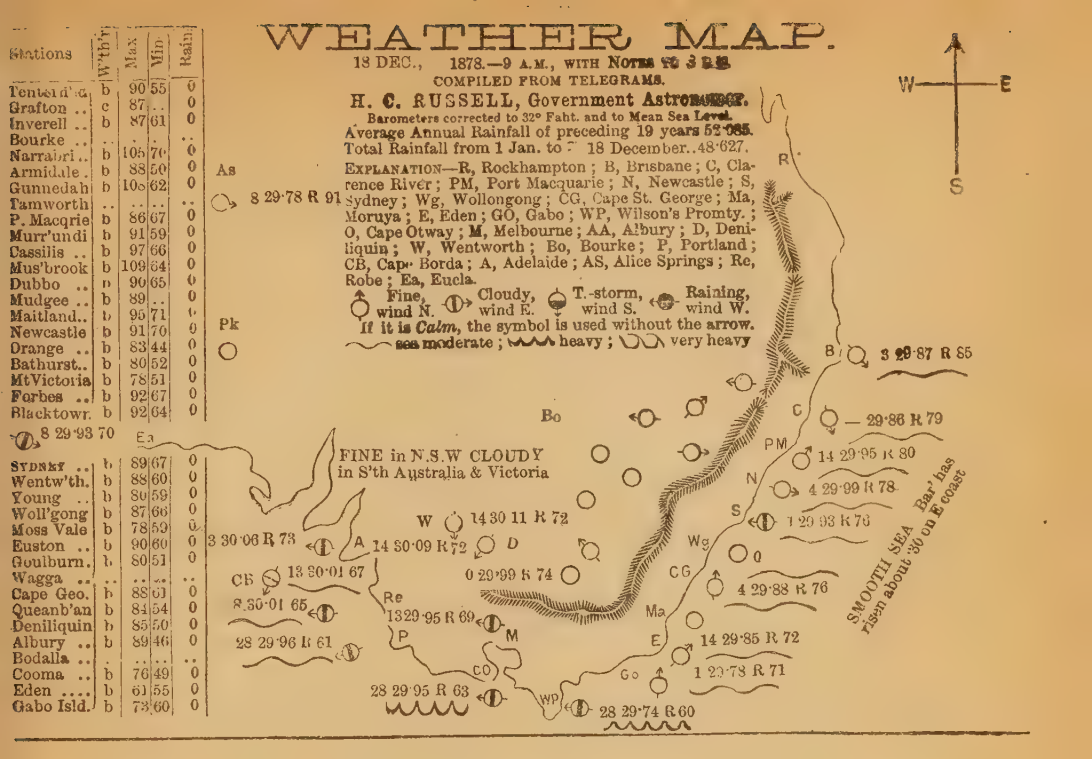
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterf'd	b	90	55	0
Grafton	c	87	..	0
Inverell	b	87	61	0
Bourke	..	..	..	..
Narrabri	b	105	70	0
Armidale	b	88	50	0
Gunnedah	b	106	62	0
Tamworth	..	..	..	..
P. Macqrie	b	86	67	0
Murr'undi	b	91	59	0
Cassilis	b	97	66	0
Mus'brook	b	109	64	0
Dubbo	b	90	65	0
Mudgee	b	89	..	0
Maitland	b	95	71	0
Newcastle	b	91	70	0
Orange	b	83	44	0
Bathurst	b	80	52	0
Mt Victoria	b	78	51	0
Forbes	b	92	67	0
Blacktown	b	92	64	0
SYDNEY	b	89	67	0
Wentw'th.	b	88	60	0
Young	b	80	59	0
Woll'gong	b	87	66	0
Moss Vale	b	78	59	0
Euston	b	90	60	0
Goulburn	b	80	51	0
Wagga	..	..	..	..
Cape Geo.	b	88	60	0
Queanb'an	b	84	54	0
Deniliquin	b	85	50	0
Albury	b	89	46	0
Bodalla	..	..	..	..
Cooma	b	76	49	0
Eden	b	61	55	0
Gabo Isld.	b	73	60	0



WEATHER MAP.

19 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 19 December..48·627.

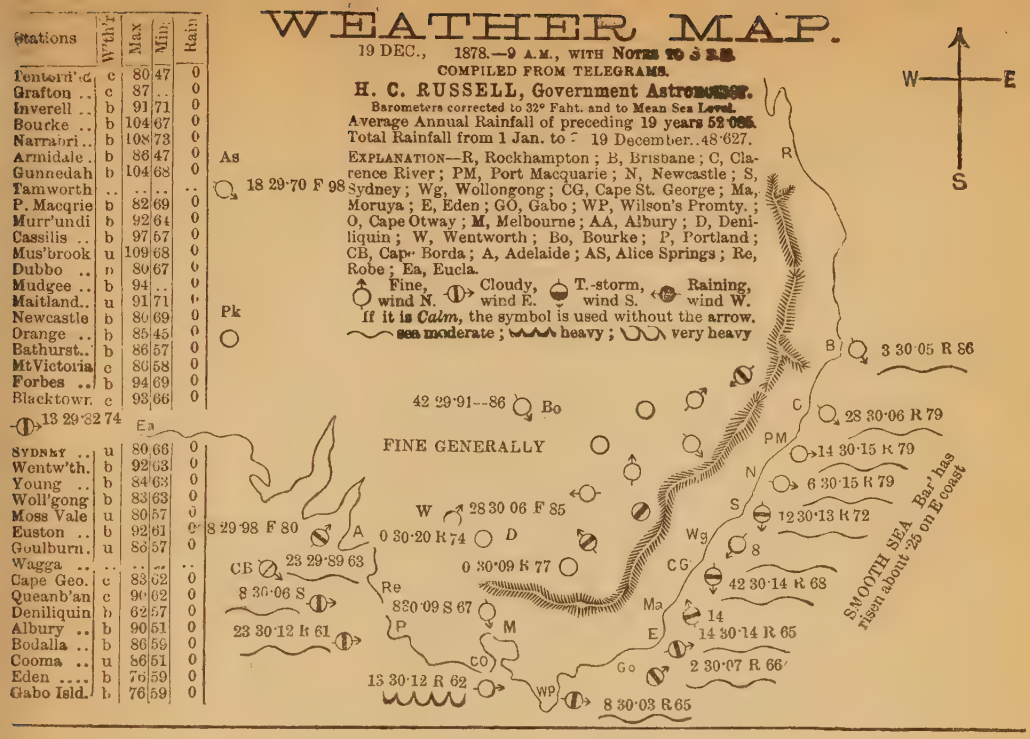
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterf'd	c	80	47	0
Grafton ..	c	87	..	0
Inverell ..	b	91	71	0
Bourke ..	b	104	67	0
Narrabri ..	b	108	73	0
Armidale .	b	86	47	0
Gunnedah	b	104	68	0
Tamworth	..	..	..	..
P. Macqrie	b	82	69	0
Murr'undi	b	92	64	0
Cassilis ..	b	97	57	0
Mus'brook	u	109	68	0
Dubbo ..	n	80	67	0
Mudgee ..	b	94	..	0
Maitland..	u	91	71	0
Newcastle	b	80	69	0
Orange ..	b	85	45	0
Bathurst..	b	86	57	0
Mt Victoria	c	86	58	0
Forbes ..	b	94	69	0
Blacktown	c	93	66	0
SYDNEY ..	u	80	66	0
Wentw'th.	b	92	63	0
Young ..	b	84	63	0
Woll'gong	b	83	63	0
Moss Vale	u	80	57	0
Euston ..	b	92	61	0
Goulburn.	u	86	57	0
Wagga ..	..	..	..	..
Cape Geo.	c	83	62	0
Queanb'an	c	90	62	0
Deniliquin	b	62	57	0
Albury ..	b	90	51	0
Bodalla ..	b	86	59	0
Cooma ..	u	86	51	0
Eden	b	76	59	0
Gabo Isld.	b	76	59	0



WEATHER MAP.

20 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·025.

Total Rainfall from 1 Jan. to 20 December..48·627.

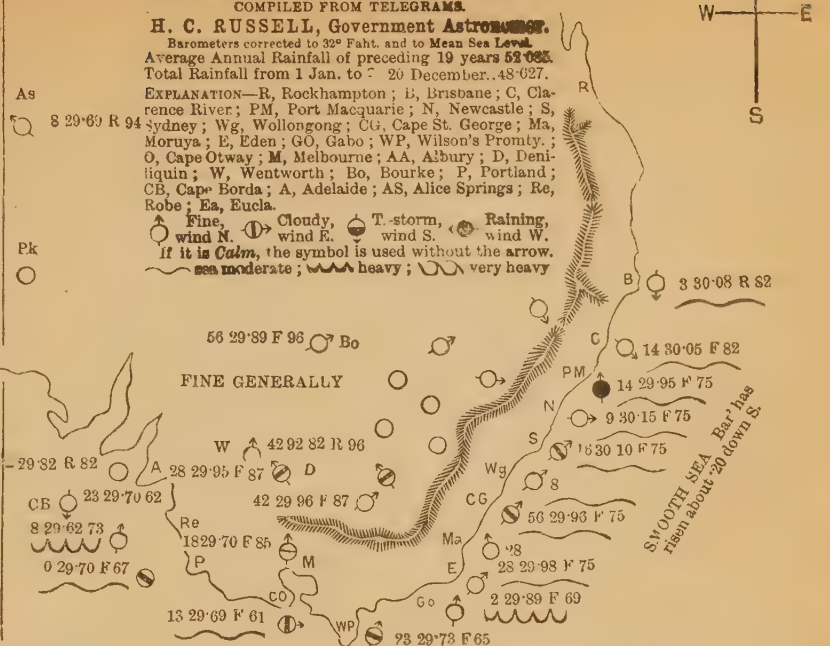
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min.	Rain
Tenterf'd.	b	79	47	0
Grafton ..	u	86	..	0·03
Inverell ..	b	92	62	0
Bourke ..	b	112	82	0
Narrabri ..	b	108	76	0
Armidale .	b	88	44	0
Gunnedah	b	109	65	0
Tamworth	..	..	..	..
P. Macqrie	p	81	70	0
Murr'umdi	b	85	61	0
Cassilis ..	b	94	67	0
Mus'brook	b	97	65	0
Dubbo ..	b	95	74	0
Mudgee ..	b	93	..	0
Maitland..	b	88	67	0
Newcastle	b	81	68	0
Orange ..	b	90	50	0
Bathurst..	b	89	59	0
MtVictoria	b	81	55	0
Forbes ..	b	99	77	0
Blacktown	...	..	..	..
SYDNEY ..	c	77	68	0
Wentw'th.	b	105	78	0
Young ..	b	89	69	0
Woll'gong	b	78	68	0
Moss Vale	b	82	60	0
Euston ..	b	105	77	0
Goulburn.	b	85	76	0
Wagga ..	..	..	..	..
Cape Geo.	b	84	67	0
Queanb'an	b	94	55	0
Deniliquin	b	105	71	0
Albury ..	b	93	62	0
Bodalla ..	b	80	68	0
Cooma ..	c	85	56	0
Eden	b	76	62	0
Gabo Isld.	b	73	63	0



WEATHER MAP.

21 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 21 December..48·627.

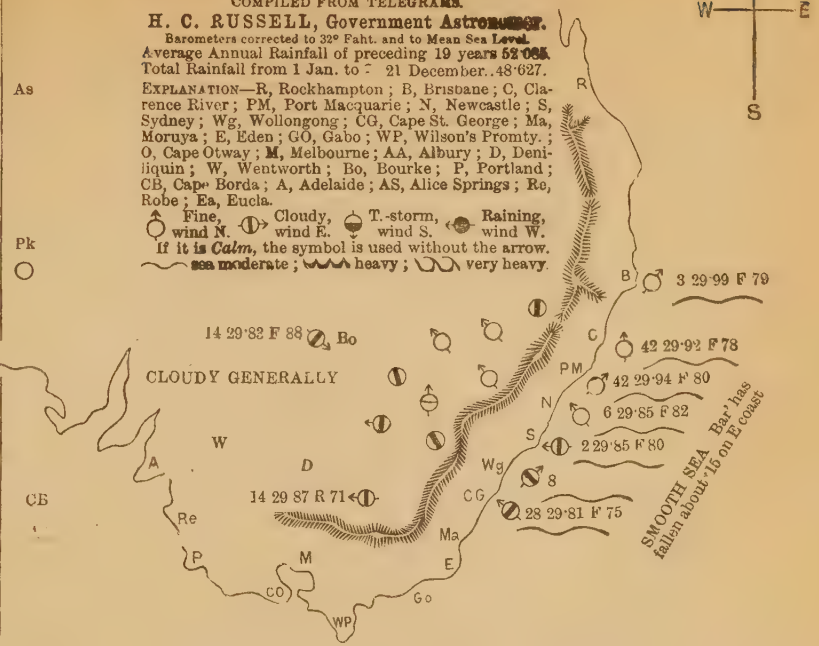
EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterf'd	c	80	49	0
Grafton ..	p	85	..	0·14
Inverell ..	b	98	69	0
Bourke ..	b	113	83	0
Narrabri ..	b	109	78	0
Armidale .	b	80	50	0
Gunnedah	b	105	67	0
Tamworth	..	..	..	..
P. Macqrie	b	81	71	0
Murr'undi	b	94	63	0
Cassilis ..	b	108	63	0
Mus'brook	..	..	..	..
Dubbo ..	b	97	75	0
Mudgee ..	b	95	..	0
Maitland..	b	92	73	0
Newcastle	b	85	58	0
Orange ..	g	91	61	0
Bathurst..	g	92	69	0
MtVictoria	c	90	65	0
Forbes ..	c	98	75	0
Blacktown	c	92	68	0
SYDNEY ..	c	81	70	0
Wentw'th.	..	..	..	..
Young ..	g	93	71	0·47
Woll'gong	c	81	72	0
Moss Vale	c	85	66	0
Euston ..	..	..	..	..
Goulburn.	u	96	65	0·35
Wagga ..	..	..	..	..
Cape Geo.	c	82	66	0
Queanb'an	c	99	65	0
Deniliquin	..	..	..	..
Albury ..	u	105	68	0
Bodalla ..	u	87	64	0
Cooma ..	..	..	..	..
Eden	..	..	..	..
Gabo Isld.	..	..	..	..



WEATHER MAP.

23 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·[illegible].

Total Rainfall from 1 Jan. to 23 December..49·045.

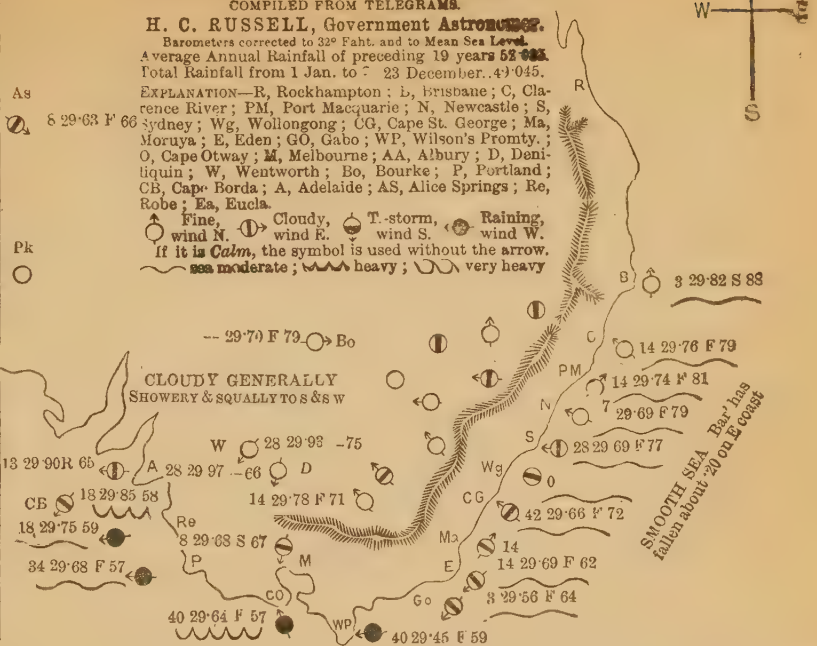
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Fenton d'A.	c	88	55	0
Grafton ..	b	93	70	0·11
Inverell ..	b	101	78	0
Bourke ..	b	97	73	0
Narrabri ..	c	101	78	0
Armidale .	b	88	53	0
Gunnedah	u	103	61	0·04
Tamworth	..	..	..	..
P. Macqrie	b	82	70	0
Murr'undi	..	..	..	..
Cassilis ..	b	91	70	0·22
Mus'brook	b	102	70	0·17
Dubbo ..	u	97	71	0
Mudgee ..	u	88	..	0
Maitland..	b	100	73	0·68
Newcastle	b	83	71	0
Orange ..	b	76	46	0·32
Bathurst..	b	87	60	0·26
MtVictoria	c	90	59	0
Forbes ..	b	82	64	0·28
Blacktown	c	85	65	0·05
SYDNEY ..	c	78	69	0·42
Wentw'th.	b	85	57	0
Young ..	..	..	..	..
Woll'gong	c	84	64	0
Moss Vale	c	77	60	0·26
Euston ..	b	93	57	0
Goulburn.	b	80	56	0
Wagga ..	..	..	..	..
Cape Geo.	b	75	63	0
Queanb'an	b	82	56	0
Deniliquin	b	89	55	0
Albury ..	b	89	51	0
Bodalla ..	c	77	57	0
Cooma ..	u	62	52	0
Eden	b	73	58	0·01
Gabo Isld.	u	74	59	0



WEATHER MAP.

24 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 24 December..49·045.

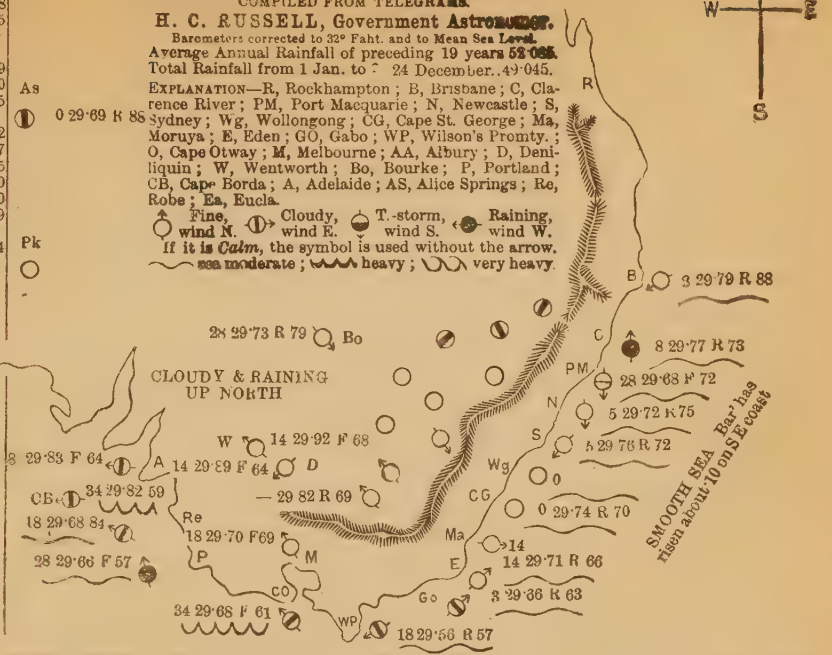
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'thr	Max	Min	Rain
Tenterf'd	u	88	55	0·28
Grafton ..	r	82	60	0·15
Inverell ..	c	89	71	0
Bourke ..	b	91	61	0
Narrabri ..	r	99	72	0·09
Armidale ..	u	86	50	0·20
Gunnedah	u	105	64	0·75
Tamworth	..	..	..	..
P. Macqrie	u	84	67	0·72
Murr'undi	r	84	63	0·17
Cassilis ..	b	81	60	0·25
Mus'brook	p	95	65	0·20
Dubbo ..	c	90	65	0·40
Mudgee ..	b	86	..	0·09
Maitland..	b	90	72	0
Newcastle	b	77	69	0·04
Orange ..	..	..	..	..
Bathurst..	b	83	54	0
Mt Victoria	b	81	51	0
Forbes ..	b	89	68	0
Blacktown	..	..	..	..
SYDNEY ..	b	87	65	0
Wentw'th.	b	85	52	0
Young ..	b	86	56	0
Woll'gong	b	89	62	0
Moss Vale	b	82	56	0
Euston ..	b	88	52	0
Goulburn.	b	81	49	0
Wagga ..	..	..	..	..
Cape Geo.	b	96	59	0
Queanb'an	b	88	53	0
Deniliquin	b	84	53	0
Albury ..	b	85	58	0
Bodalla ..	b	94	52	0
Cooma ..	b	80	48	0
Eden	b	75	55	0
Gabo Isld.	g	71	57	0



WEATHER MAP.

26 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·065.

Total Rainfall from 1 Jan. to 26 December..49·045.

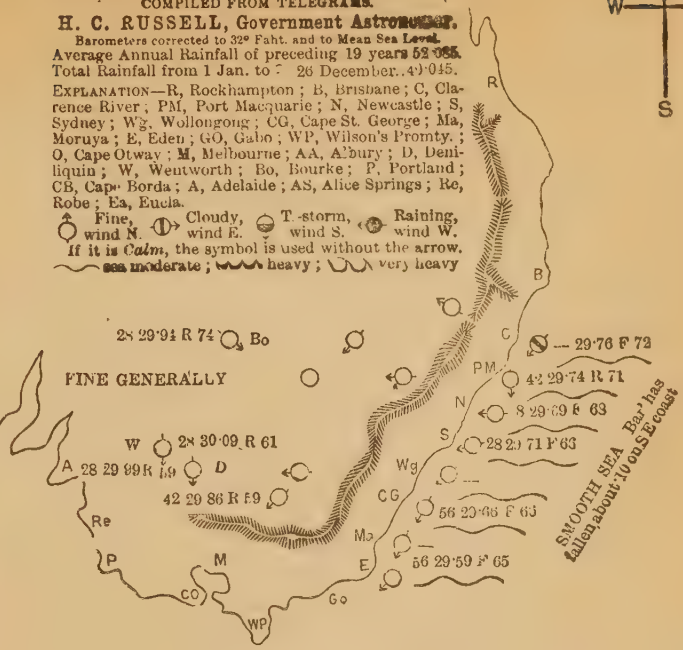
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain	
Tenterf'ld	b	81	58	1·70	
Grafton ..	g	95	62	0·25	
Inverell ..	b	85	63	0·45	
Bourke ..	c	101	69	0	
Narrabri ..	b	90	64	0	
Armidale .	b	70	40	0·90	As
Gunnedah	..	..	..	..	
Tamworth	..	..	..	..	
P. Macqrie	b	78	58	0·60	
Murr'undi	b	87	53	0	
Cassilis ..	b	93	58	0	
Mus'brook	b	97	54	0	
Dubbo ..	b	86	59	0	
Mudgee ..	b	88	..	0·35	
Maitland..	..	..	..	..	
Newcastle	b	83	55	0·55	Pk
Orange ..	b	67	34	0	
Bathurst..	b	83	31	0	
MtVictoria	b	81	44	0	
Forbes ..	b	84	62	0	
Blacktown	..	..	..	..	
SYDNEY ..	b	84	61	0	
Wentw'th.	b	88	46	0	
Young ..	b	78	58	0·05	
Woll'gong	b	84	56	0	
Moss Vale	..	..	..	..	
Euston ..	b	76	49	0	
Goulburn.	b	77	46	0	
Wagga ..	..	..	..	..	CB
Cape Geo.	b	76	58	0	
Queanb'an	b	83	48	0	
Deniliquin	b	85	46	0	
Albury ..	b	87	45	0	
Bodalla ..	b	91	47	0	
Cooma ..	b	70	36	0	
Eden	b	70	53	0	
Gabo Isld.	..	..	..	..	



WEATHER MAP.

27 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 27 December..49·045.

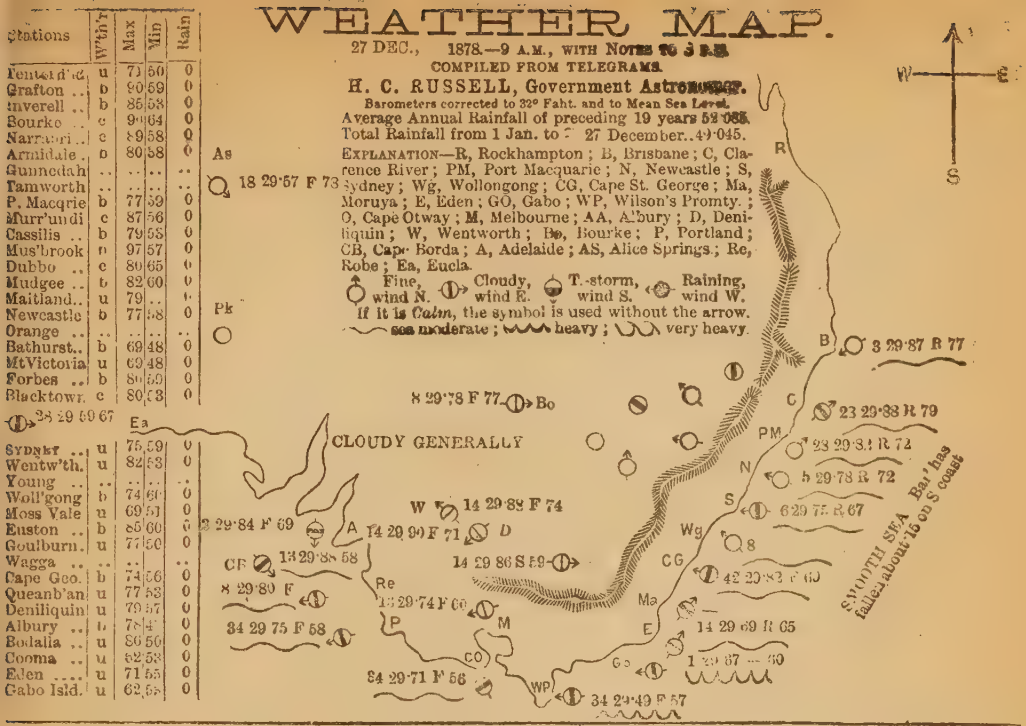
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs.; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'thr	Max	Min	Rain
Tenterfield	u	71	50	0
Grafton ..	b	90	59	0
Inverell ..	b	85	58	0
Bourke ..	c	90	64	0
Narrandera ..	c	89	58	0
Armidale ..	b	80	58	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	77	59	0
Murr'undi	c	87	56	0
Cassilis ..	b	79	58	0
Mus'brook	b	97	57	0
Dubbo ..	c	80	65	0
Mudgee ..	b	82	60	0
Maitland..	u	79	..	0
Newcastle	b	77	58	0
Orange ..	..	..	..	..
Bathurst..	b	69	48	0
MtVictoria	u	69	48	0
Forbes ..	b	80	50	0
Blacktown.	c	80	53	0
Sydney ..	u	75	59	0
Wentw'th.	u	82	53	0
Young ..	..	..	..	..
Woll'gong	b	74	60	0
Moss Vale	u	69	51	0
Euston ..	b	85	60	0
Goulburn.	u	77	50	0
Wagga ..	..	..	..	..
Cape Geo.	b	74	56	0
Queanb'an	u	77	53	0
Deniliquin	u	79	57	0
Albury ..	b	78	47	0
Bodalia ..	u	80	50	0
Cooma ..	u	82	53	0
Eden	u	71	55	0
Gabo Isld.	u	62	55	0



WEATHER MAP.

28 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 28 December..49·045.

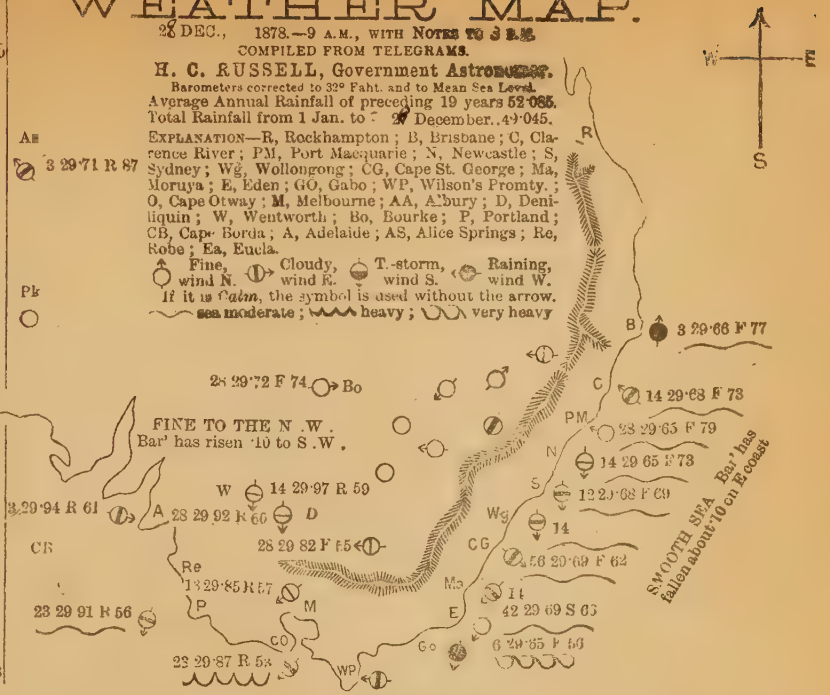
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Rockhampton	u	78	58	0·10
Grafton ..	b	86	60	0
Inverell ..	b	81	65	0
Bourke ..	b	90	72	0
Narrabri ..	b	92	70	0
Armidale .	b	84	46	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	79	67	0
Murr'undi	b	83	71	0
Cassilis ..	n	87	67	0
Mus'brook	c	95	68	0
Dubbo ..	b	85	61	0
Mudgee ..	g	83	..	0
Maitland..	b	88	68	0
Newcastle	g	88	67	0
Orange ..	b	73	46	0
Bathurst..	b	72	59	0
MtVictoria	b	77	57	0
Forbes ..	b	84	60	0
Blacktown.	c	85	62	0
Eucla				
SYDNEY ..	g	80	67	0
Wentw'th.	g	86	55	0
Young ..	b	77	65	0
Woll'gong	c	80	64	0
Moss Vale	b	73	52	0
Euston ..	g	82	57	0
Goulburn.	b	78	60	0
Wagga ..	..	..	..	..
Cape Geo.	b	88	61	0
Queanb'an	..	..	..	..
Deniliquin	g	84	51	0
Albury ..	b	86	52	0
Sodalla ..	b	81	56	0
Cooma ..	..	..	..	..
Eden	b	69	54	0
Gabo Isld.	p	72	54	0·03



WEATHER MAP.

30 DEC., 1878.—9 A.M., WITH NOTES 26 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 30 December..49·247.

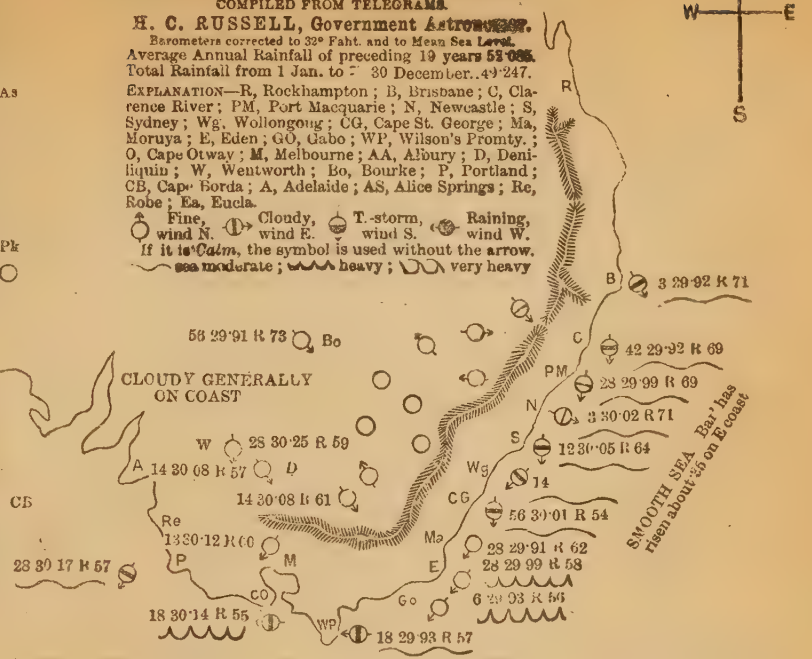
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterf'd	u	80	59	0
Grafton	u	95	59	0
Inverell	b	86	54	0
Bourke	b	89	58	0
Narraori	b	95	62	0
Armidale	b	83	40	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	m	82	62	0·17
Murr'undi	c	86	55	0
Cassilis	b	92	56	0
Mus'brook	n	97	68	0
Dubbo	b	88	58	0
Mudgee	b	90	..	0
Maitland	c	88	62	0
Newcastle	u	78	56	0·04
Orange	b	71	40	0
Bathurst	b	83	43	0
Mt Victoria	b	84	45	0
Forbes	c	84	60	0
Blacktown	c	84	57	0
Sydney	u	78	57	0·20
Wentw'th	b	77	47	0
Young	b	75	50	0
Woll'gong	c	76	59	0
Moss Vale	c	72	54	0
Euston	b	79	49	0
Goulburn	b	73	47	0
Wagga	..	..	..	..
Cape Geo.	b	74	57	0
Queanb'an	c	82	49	0
Deniliquin	b	78	45	0
Albury	b	81	35	0
Bodalla	b	82	39	0
Cooma	b	74	35	0
Eden	b	72	53	0
Gabo Isld.	c	62	50	0·01



WEATHER MAP.

31 DEC., 1878.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 19 years 52·085.

Total Rainfall from 1 Jan. to 31 December..49·249.

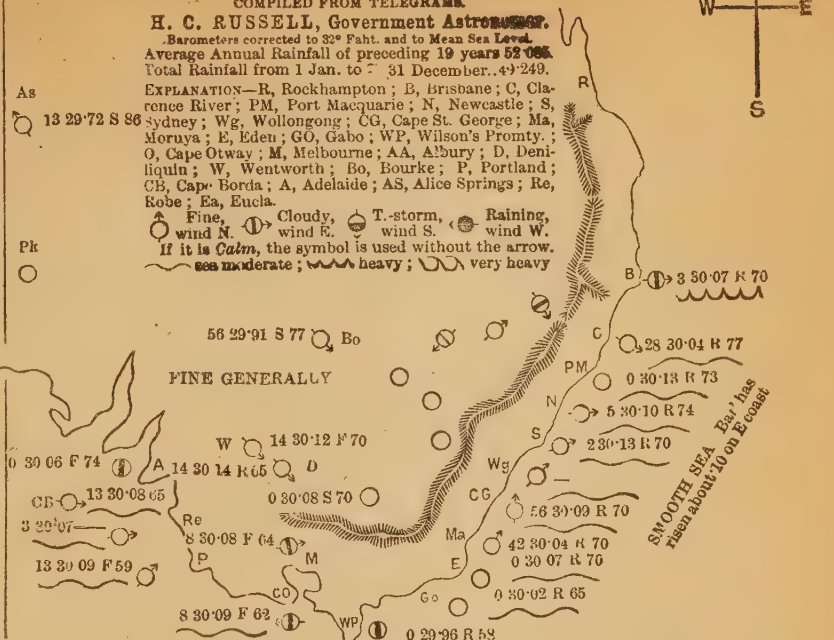
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

Stations	W'th'r	Max	Min	Rain
Tenterfield	u	79	53	0
Grafton ..	c	76	53	0
Inverell ..	b	85	56	0
Bourke ..	b	90	66	0
Narrabri ..	b	105	77	0
Armidale .	b	85	52	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	76	61	0
Murr'undi	b	79	54	0
Cassilis ..	b	87	57	0
Mus'brook	n	89	55	0
Dubbo ..	b	83	62	0
Mudgee ..	b	85	..	0
Maitland..	b	77	60	0
Newcastle	b	80	60	0
Orange ..	b	81	34	0
Bathurst..	b	79	50	0
MtVictoria	b	75	50	0
Forbes ..	b	82	62	0
Blacktown.	b	78	58	0
SYDNEY ..	b	71	62	0
Wentw'th.	b	81	53	0
Young ..	..	..	..	..
Woll'gong	b	72	63	0
Moss Vale	b	73	53	0
Euston ..	u	8[illegible]	50	0
Goulburn.	b	79	51	0
Wagga ..	..	..	..	..
Cape Geo.	b	79	61	0
Queamb'an		82	57	0
Deniliquin	b	81	48	0
Albury ..	m	82	42	0
Bodalla ..	b	79	48	0
Cooma ..	b	76	36	0
Eden	b	76	53	0
Gabo Isld.	m	68	53	0



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